NO 1:100,000

COMPOSITE

GRID →

No 2
BOTTOM HALF SHOT
TOP →

GRID →

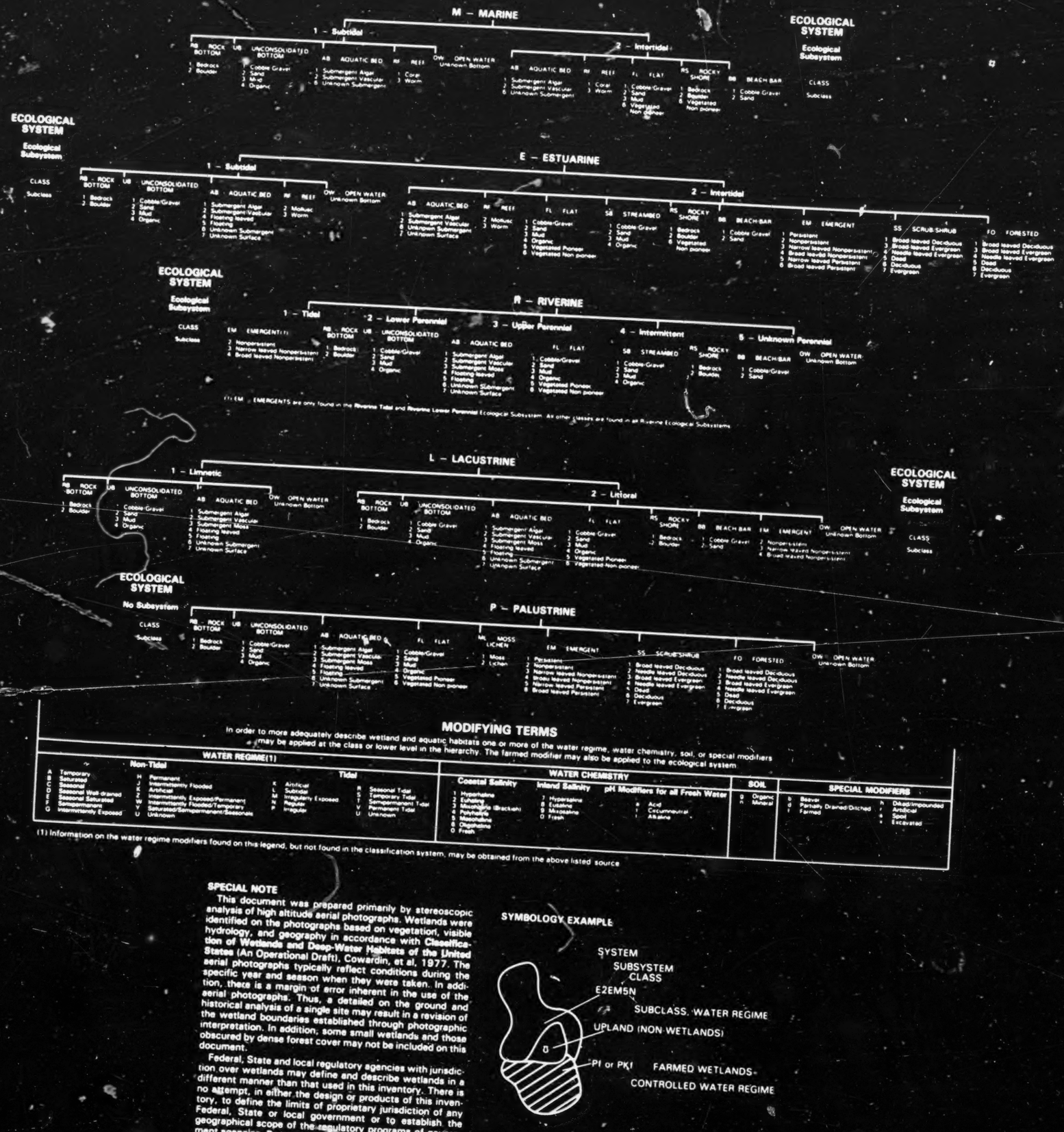
NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WS 14-31

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



MODIFYING TERMS

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WATER REGIME(1)			
Non-Tidal		Tidal	
A Temporary	H Permanent	K Artificial	R Seasonal Tidal
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C Seasonal	U Artificial	M Irregularly Exposed	T Semipermanent Tidal
D Seasonal Well-drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal
E Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown
F Semipermanent	Y Saturated/Semipermanent/Seasonal		
G Intermittently Exposed	U Unknown		

WATER CHEMISTRY				SOIL	SPECIAL MODIFIERS	
Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water				
1 Hyperhaline	7 Hyperhaline	a Acid		o Organic	b Beaver	h Diked/Impounded
2 Euhaline	8 Euhaline	1 Circumneutral		n Mineral	d Partially Drained/Ditched	r Artificial
3 Mixohaline (Brackish)	9 Mixohaline	2 Alkaline			f Farmed	s Spoil
4 Polyhaline	0 Fresh					x Excavated
5 Mesohaline						
6 Oligohaline						
0 Fresh						

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

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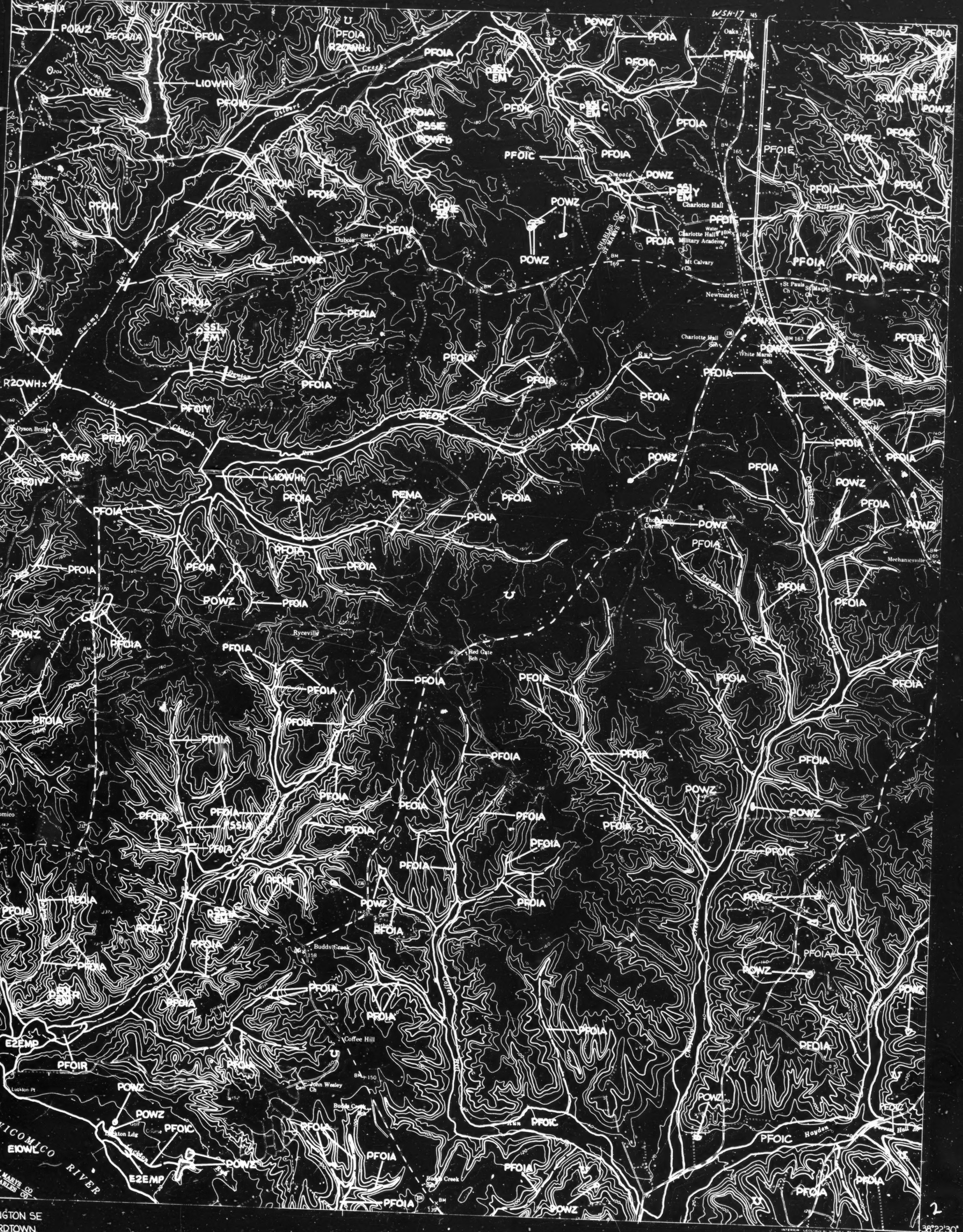
AE 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



WASHINGTON SE
LEONARDTOWN

SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 MILE
1 0 1 KILOMETER

38°22'30"
76°45'

AERIAL PHOTO 3/78

CHARLOTTE HALL, MD

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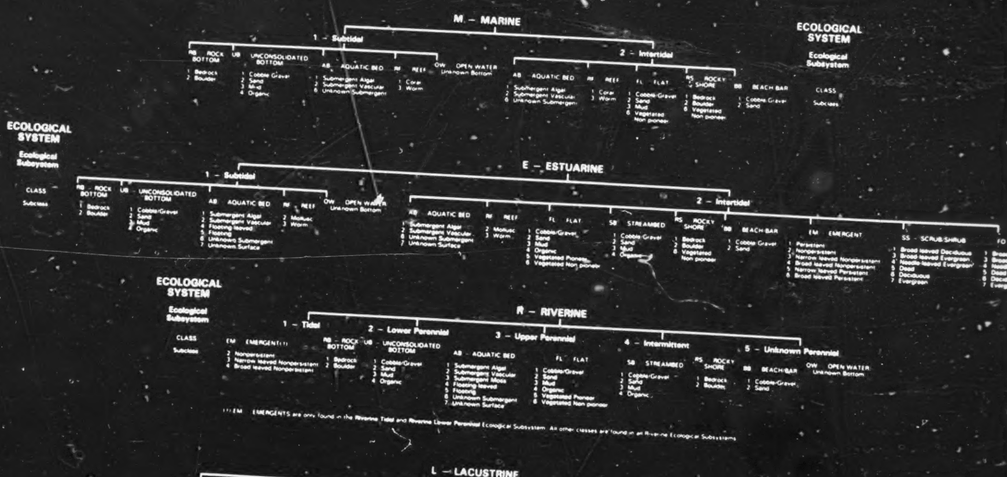

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WATER REGIME(1)										WATER CHEMISTRY						SOIL	SPECIAL MODIFIERS	
Non-Tidal				Tidal						Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water						
A Temporary	H Permanent		K Artificial		R Seasonal Tidal					1 Hyperhaline	9 Hypersaline	9 Hyperalkaline				S Organic	B Beaver	
B Saturated	J Intermittently Flooded		L Subtidal		T Temporary Tidal					2 Euhaline	8 Eusaline	8 Eutrophic		A Acid		A Mineral	F Partially Drained/Ditched	
C Seasonal Well-drained	K Artificial		M Irregularly Exposed		V Permanent Tidal					3 Mixohaline (Brackish)	7 Mixosaline	7 Mixotrophic		C Circumneutral			H Farmed	
D Seasonal Saturated	S Intermittently Exposed/Permanent		N Regularly		W Intermittent Tidal					4 Polyhaline	6 Mixohaline	6 Mixosaline		I Alkaline			J Artificial	
E Semipermanently	T Intermittently Flooded/Temporary		P Irregular		Y Permanent Tidal					5 Mesohaline	5 Eusaline	5 Eutrophic					K Spoil	
F Intermittently Exposed	U Saturated/Semipermanent/Seasonal									6 Oligohaline							L Excavated	
	U Unknown				U Unknown					7 Fresh	0 Fresh	4 Dystrophic						

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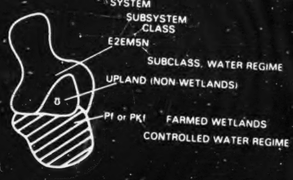

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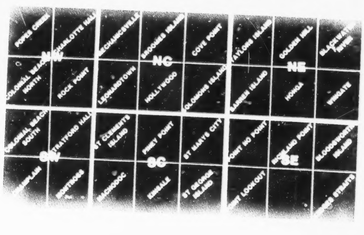
MICROFICHE INDEX
WASHINGTON (SE)
TECHNICAL



AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-16

WASHINGTON SE
LEONARDTOWN

AERIAL PHOTO 3/78

COLONIAL BEACH NORTH, MD.-VA

SCALE 1:24 000

3

38°15'

76°52'30"

WETLAND LEGEND

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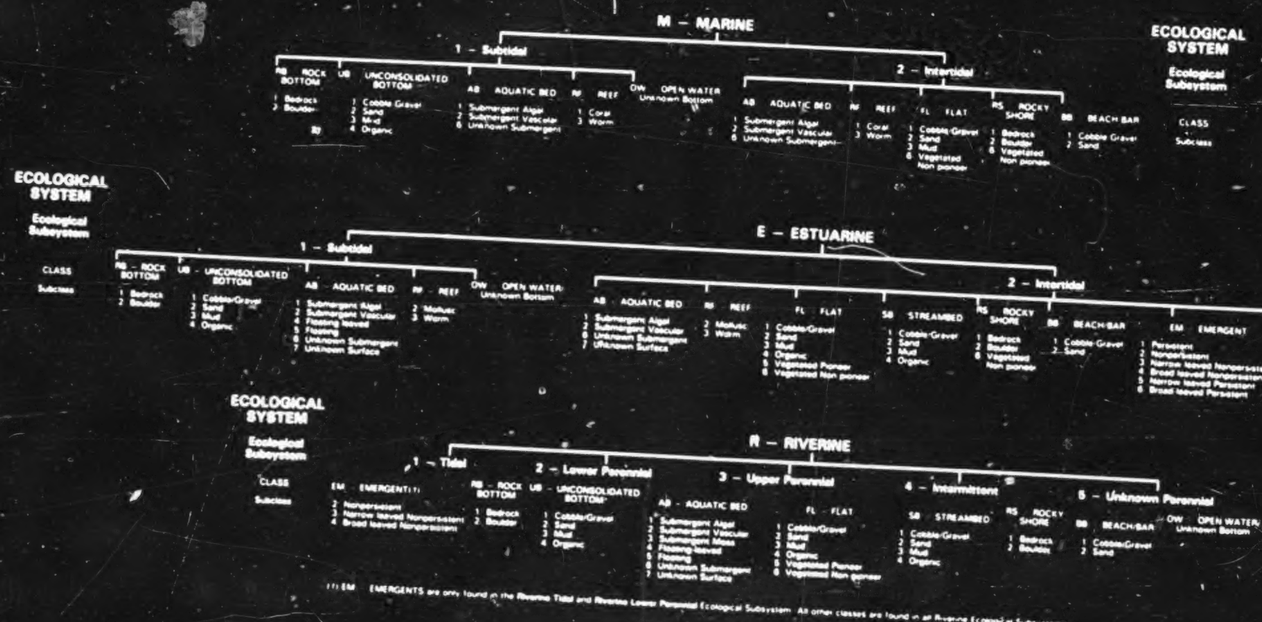

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WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- N Intermittently Exposed/Permanent
- P Intermittently Flooded/Temporary
- R Saturated/Semipermanent/Seasonal
- U Unknown

Tidal
- K Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- Q Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hyperhaline
- 2 Euhaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- b Circumneutral
- i Alkaline

SOIL
- 0 Organic
- 5 Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- k Artificial
- r Spoil
- x Excavated

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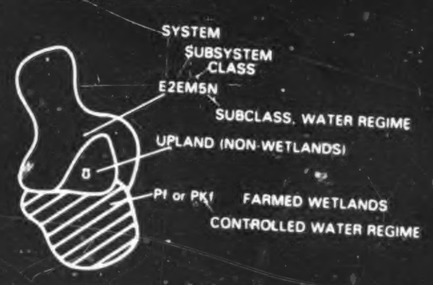

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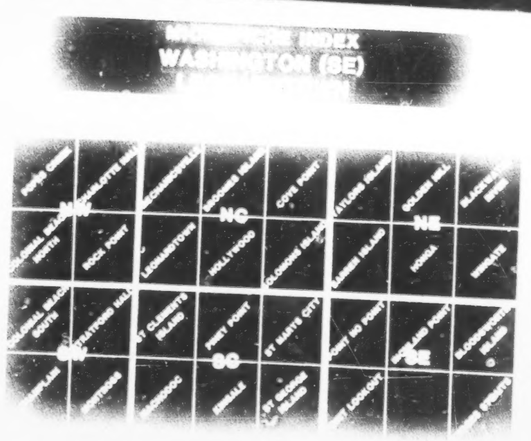

AF 14054C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WASHINGTON SE
LEONARDTOWN

SCALE 1:24000

ROCK POINT, MD

AERIAL PHOTO 3/78

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WATER REGIME(1)

Non-Tidal	Tidal
A Temporary	H Permanent
B Saturated	J Intermittently Flooded
C Seasonal	K Artificial
D Seasonal Well-Drained	L Subtidal
E Seasonal Saturated	M Irregularly Exposed/Permanent
F Semipermanent	N Regularly Flooded/Temporary
G Intermittently Exposed	P Irregularly Exposed/Semipermanent/Seasonal
	R Seasonal Tidal
	S Temporary Tidal
	T Intermittently Exposed/Permanent
	U Permanent Tidal
	V Unknown

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hyperhaline	5 Acid
2 Euhaline	8 Eusaline	6 Circumneutral
3 Mixohaline (Brackish)	9 Mixosaline	7 Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

8 Organic
9 Mineral

SPECIAL MODIFIERS

b Beaver	h Diked/Impounded
d Partially Drained/Ditched	f Artificial
x Farmed	s Spoil
	r Excavated

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M – MARINE

1 – Subtidal

ECOLOGICAL SYSTEM							
Ecological Subsystem							
CLASS	RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom		
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	2 Mollusc 3 Worm			

2 – Intertidal

ECOLOGICAL SYSTEM								
Ecological Subsystem								
CLASS	AB AQUATIC BED	RF REEF	FL FLAT	RS ROCKY SHORE	BB BEACH BAR			
Subclass	1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	1 Coral 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 6 Vegetated Non pioneer	1 Bedrock 2 Boulder 6 Vegetated Non pioneer	1 Cobble Gravel 2 Sand			

E – ESTUARINE

1 – Subtidal

ECOLOGICAL SYSTEM						
Ecological Subsystem						
CLASS	RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom	
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm		

2 – Intertidal

ECOLOGICAL SYSTEM									
Ecological Subsystem									
CLASS	AB AQUATIC BED	RF REEF	FL FLAT	SB STREAMBED	RS ROCKY SHORE	BB BEACH BAR	EM EMERGENT	SS SCRUB-SHRUB	FO FORESTED
Subclass	1 Submergent Algal 2 Submergent Vascular 7 Unknown Submergent	2 Mollusc 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 6 Vegetated Non pioneer	1 Cobble Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM										
Ecological Subsystem	1 – Tidal		2 – Lower Perennial		3 – Upper Perennial		4 – Intermittent		5 – Unknown Perennial	
CLASS	EM EMERGENT(1)		RB ROCK BOTTOM UB UNCONSOLIDATED BOTTOM		AB AQUATIC BED	FL FLAT	SB STREAMBED	RS ROCKY SHORE	BB BEACH/BAR	OW OPEN WATER Unknown Bottom
Subclass	2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent		1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand	

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

1 – Limnetic

ECOLOGICAL SYSTEM						
No Subsystem						
CLASS	RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	OW OPEN WATER Unknown Bottom		
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface			

2 – Littoral

ECOLOGICAL SYSTEM									
Ecological Subsystem									
CLASS	RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	RS ROCKY SHORE	BB BEACH BAR	EM EMERGENT	OW OPEN WATER Unknown Bottom	
Subclass	1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand	1 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent		

P – PALUSTRINE

ECOLOGICAL SYSTEM										
No Subsystem										
CLASS	RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	ML MOSS-LICHEN	EM EMERGENT	SS SCRUB-SHRUB	FO FORESTED	OW OPEN WATER Unknown Bottom	
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 4 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen		

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WATER REGIME(1)

Non-Tidal		Tidal	
A Temporary	H Permanent	K Artificial	R Seasonal Tidal
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C Seasonal	K Artificial	M Irregularly Exposed	T Semipermanent Tidal
D Seasonal Well drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal
E Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown
F Semipermanent	Y Saturated/Semipermanent/Seasonal		
G Intermittently Exposed	U Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	a Acid
2 Euhaline	8 Eusaline	i Circumneutral
3 Mesohaline (Brackish)	9 Mesosaline	l Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

g Organic	
n Mineral	

SPECIAL MODIFIERS

b Beaver	h Diked/Impounded
d Partially Drained/Ditched	x Artificial
f Farmed	s Spoil
	r Excavated

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MICHAUD INDEX
WASHINGTON (SE)
LEONARDTOWN

AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-23

WASHINGTON SE
LEONARDTOWN

SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
0 1 KILOMETER

AERIAL PHOTO 4/78

BROOMES ISLAND, MD

38°22'30"
76°30'

WETLAND LEGEND

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M – MARINE

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER
1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	1 Coral 3 Worm	Unknown Bottom

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	RS ROCKY SHORE	BB BEACH BAR	EM EMERGENT
1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	1 Coral 3 Worm	1 Cobble Gravel 2 Sand 3 Mud 6 Vegetated Non pioneer	1 Bedrock 2 Boulder 6 Vegetated Non pioneer	1 Cobble Gravel 2 Sand	2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent

E – ESTUARINE

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER
1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	Unknown Bottom

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	SB STREAMBED	RS ROCKY SHORE	BB BEACH/BAR	EM EMERGENT
1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent

SS SCRUB/SHRUB	FO FORESTED
1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Evergreen 4 Dead 5 Deciduous 6 Evergreen	1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Evergreen 4 Dead 5 Deciduous 6 Evergreen

R – RIVERINE

1 – Tidal

EM EMERGENT(1)	RB ROCK BOTTOM
2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent	1 Bedrock 2 Boulder

UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	SB STREAMBED
1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic

RS ROCKY SHORE	BB BEACH/BAR	OW OPEN WATER	
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand	Unknown Bottom	

2 – Lower Perennial

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	SB STREAMBED
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic

RS ROCKY SHORE	BB BEACH/BAR	OW OPEN WATER	
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand	Unknown Bottom	

3 – Upper Perennial

AB AQUATIC BED	FL FLAT	OW OPEN WATER	
1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	Unknown Bottom	

4 – Intermittent

SB STREAMBED	RS ROCKY SHORE	BB BEACH/BAR	OW OPEN WATER
1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand	Unknown Bottom

5 – Unknown Perennial

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

1 – Limnetic

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	OW OPEN WATER
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	Unknown Bottom

2 – Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	RS ROCKY SHORE	BB BEACH/BAR	EM EMERGENT
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand	2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent

OW OPEN WATER	
Unknown Bottom	

P – PALUSTRINE

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	ML MOSS LICHEN	EM EMERGENT	SS SCRUB/SHRUB
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

FO FORESTED	OW OPEN WATER	
1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	Unknown Bottom	

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal		Tidal	
A Temporary	H Permanent	K Artificial	R Seasonal Tidal
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C Seasonal	K Artificial	M Irregularly Exposed	T Semipermanent Tidal
D Seasonal Well drained	Z Intermittent, Exposed/Permanent	N Regular	V Permanent Tidal
E Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown
F Semipermanent	Y Saturated/Semipermanent/Seasonal		
G Intermittently Exposed	U Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	a Acid
2 Euhaline	8 Eusaline	r Circumneutral
3 Mixohaline (Brackish)	9 Mixosaline	i Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

0 Organic	
n Mineral	

SPECIAL MODIFIERS

b Beaver	h Diked/Impounded
d Partially Drained/Ditched	r Artificial
f Farmed	s Spoil
	x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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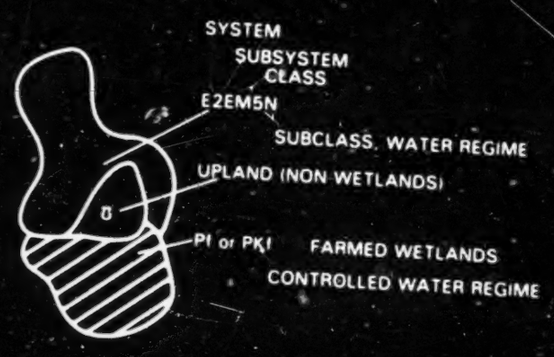
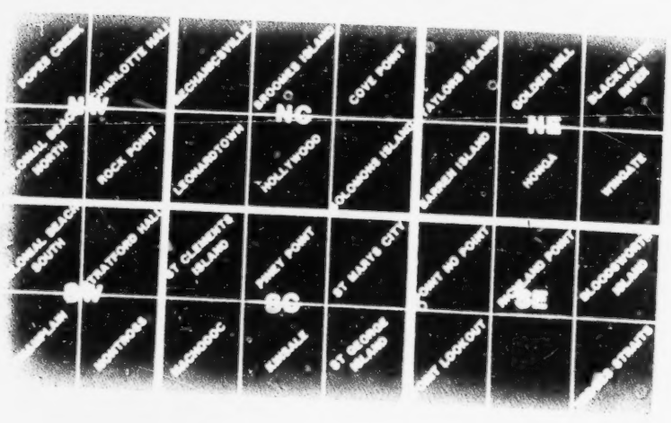
SYMBOLOGY EXAMPLE



NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.



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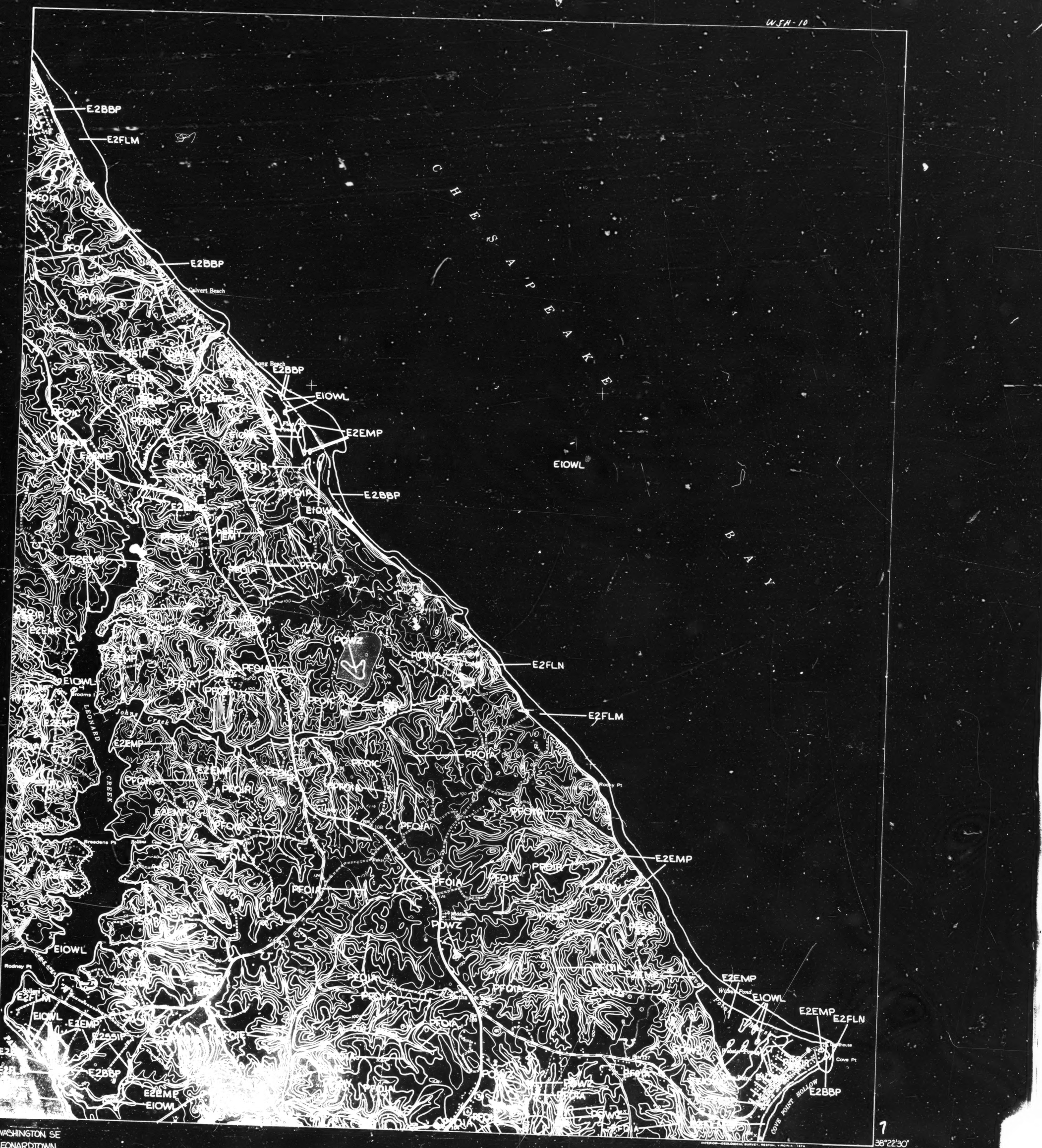

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)								WATER CHEMISTRY				SOIL	SPECIAL MODIFIERS
Non-Tidal				Tidal				Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water			
A Temporary	H Permanent	E Artificial		A Seasonal Tidal				1 Hyperhaline	5 Hypersaline	a Acid		a Organic	b Beaver
B Saturated	J Intermittently Flooded	L Subsoil		S Temporary Tidal				2 Euhaline	6 Eusaline	i Circumneutral		g Mineral	d Partially Drained/Ditched
C Seasonal	K Artificial	M Irregularly Exposed		T Semipermanent Tidal				3 Mixohaline (Brackish)	7 Oligohaline	y Alkaline			f Farmed
D Seasonal Well-drained	R Intermittently Exposed/Permanent	N Regular		V Permanent Tidal				4 Polyhaline	0 Fresh				h Diked/Impounded
E Seasonal Saturated	V Intermittently Flooded/Temporary	P Irregular		U Unknown				8 Mixosaline					r Artificial
F Semipermanent	W Intermittently Exposed/Semipermanent/Seasonal							9 Polysaline					s Spoil
G Intermittently Exposed	U Unknown												x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

NOTES TO THE USER

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UNITED STATES DEPARTMENT OF THE INTERIOR

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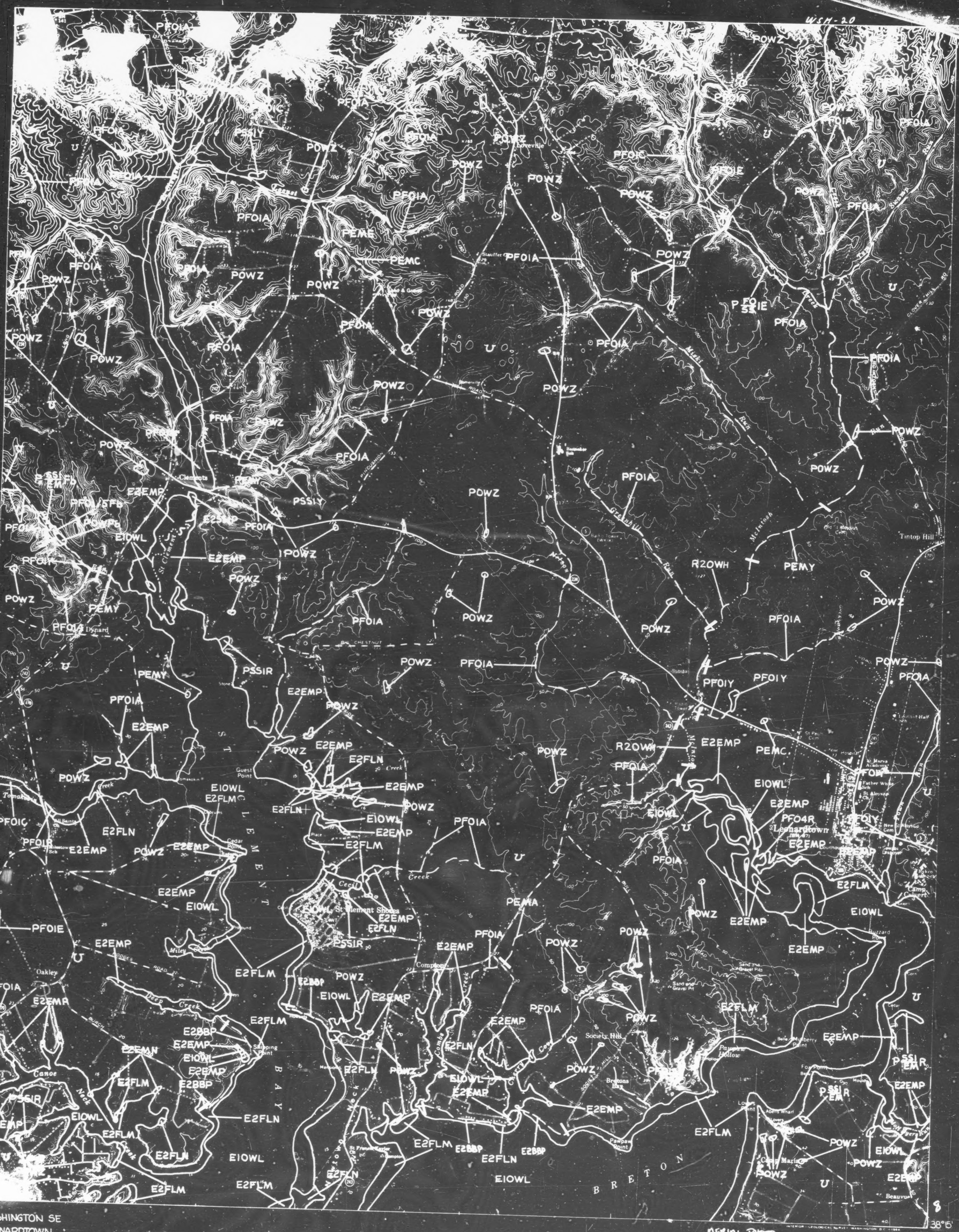

WASHINGTON SE
LEONARDTOWN

SCALE 1:24000

AERIAL PHOTO
31-78

38°15'
76°37'30"

LEONARDTOWN, MD

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Subtidal

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent
- RF REEF: 1 Coral, 3 Worm
- OW OPEN WATER: Unknown Bottom

2 – Intertidal

- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent
- RF REEF: 1 Coral, 3 Worm
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 6 Vegetated Nonpioneer
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer
- BB BEACH BAR: 1 Cobble Gravel, 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Subtidal

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- RF REEF: 2 Mollusc, 3 Worm
- OW OPEN WATER: Unknown Bottom

2 – Intertidal

- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent, 7 Unknown Surface
- RF REEF: 2 Mollusc, 3 Worm
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
- SB STREAMBED: 1 Cobble Gravel, 2 Sand, 3 Mud, 4 Organic
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer
- BB BEACH BAR: 1 Cobble Gravel, 2 Sand
- EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS SCRUB-SHRUB: 1 Broad leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- FO FORESTED: 1 Broad leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Tidal

- EM EMERGENT(1): 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent

2 – Lower Perennial

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

3 – Upper Perennial

- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer

4 – Intermittent

- SB STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder
- BB BEACH BAR: 1 Cobble Gravel, 2 Sand

5 – Unknown Perennial

- OW OPEN WATER: Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Limnetic

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- OW OPEN WATER: Unknown Bottom

2 – Littoral

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- FL FLAT: 1 Cobble Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder
- BB BEACH BAR: 1 Cobble Gravel, 2 Sand
- EM EMERGENT: 1 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent
- OW OPEN WATER: Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM → No Subsystem → CLASS → Subclass

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
- ML MOSS LICHEN: 1 Moss, 2 Lichen
- EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS SCRUB SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- OW OPEN WATER: Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal
- U Unknown

Tidal
- E Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hypersaline
- 2 Euhaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mixohaline
- 8 Oligohaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- c Circumneutral
- i Alkaline

SOIL
- 0 Organic
- 1 Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

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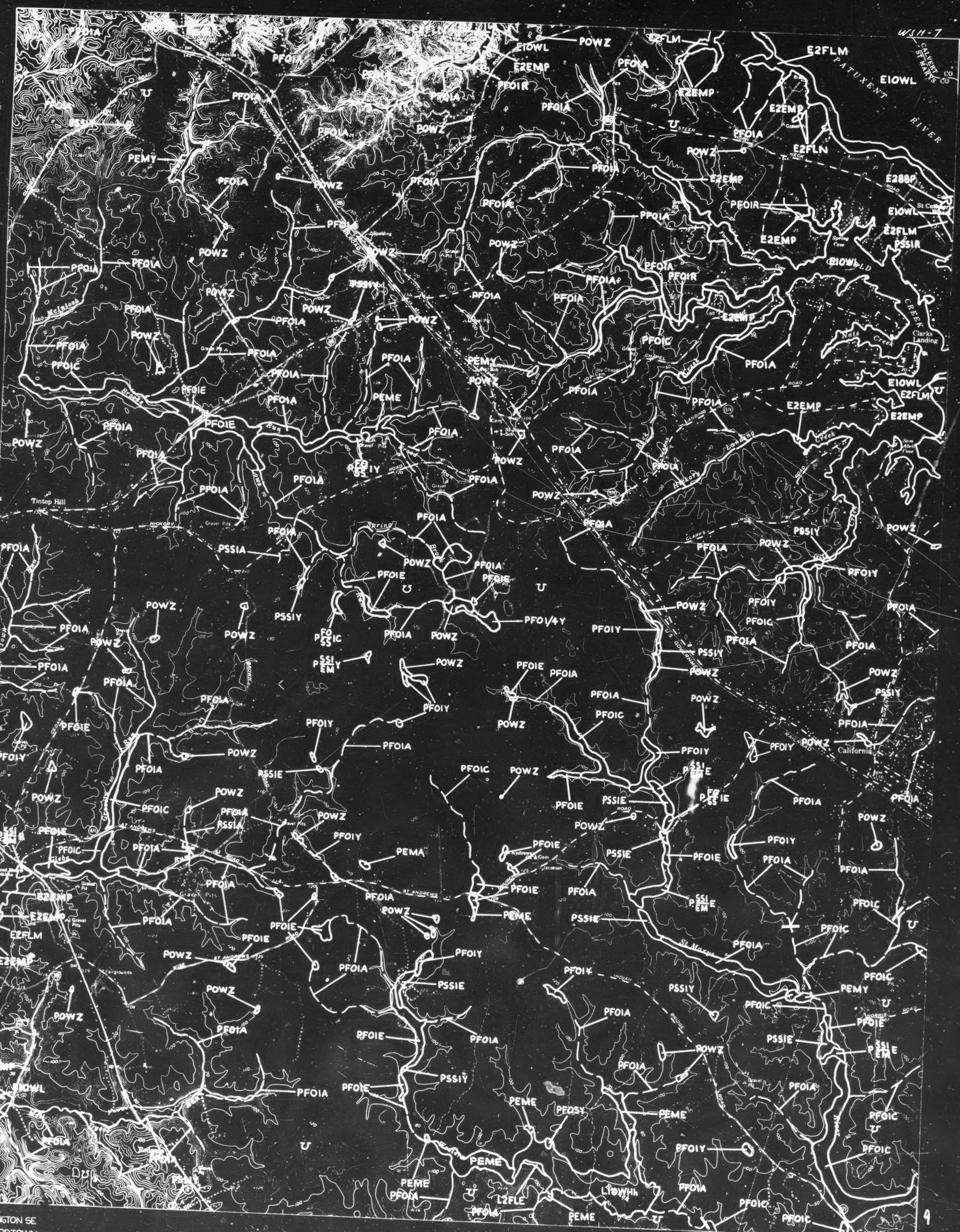
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PFO1/4Y
E2EMP
E2FLM
E2FLN
E1OWL
E2FLM
PSSIR
E2BBP
PATUXENT RIVER
CALVERT
ST MARYS
Tintop Hill
Clarks Landing
California
Nats Creek
Spring Cove
Joy Chapel
Gravel Pits
Fairgrounds
Roadside Park
Spalding
Grimes Pt
Saint Pt
Sam Abell Cem
Jacobson
Indian
Hickory
Brooks
Clarks
Mill
Field
Back
Creek
Landing
Rd
Road
St Andrews
St Marys
Railroad
Gov Summer
Tower
Church
Chapel
Cem
Sch
Ch
Pl
Ext
Neck
Grant
Joy Chapel
Sam Abell Cem
St Andrews Cem
Jacobson
Gravel Pits
Fairgrounds
Roadside Park
Spalding
Grimes Pt
Saint Pt
Tintop Hill
Clarks Landing
California
Nats Creek
Spring Cove

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 – Subtidal

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 6 Unknown Submergent
- RF REEF: 1 Coral, 3 Worm
- OW OPEN WATER: Unknown Bottom

2 – Intertidal

- AB AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 8 Unknown Submergent
- RF REEF: 1 Coral, 3 Worm
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 8 Vegetated Non pioneer
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 8 Vegetated Non pioneer
- BB BEACH BAR: 1 Cobble/Gravel, 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 – Subtidal

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- RF REEF: 2 Mollusc, 3 Worm
- OW OPEN WATER: Unknown Bottom

2 – Intertidal

- AB AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 6 Unknown Submergent, 7 Unknown Surface
- RF REEF: 2 Mollusc, 3 Worm
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 8 Vegetated Non pioneer
- SB STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 8 Vegetated Non pioneer
- BB BEACH BAR: 1 Cobble/Gravel, 2 Sand
- EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS SCRUB/SHRUB: 3 Broad leaved Deciduous, 4 Broad leaved Evergreen, 5 Needle leaved Evergreen, 6 Dead, 7 Deciduous, 8 Evergreen
- FO FORESTED: 1 Broad leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 – Tidal

- EM EMERGENT(1): 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent

2 – Lower Perennial

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface

3 – Upper Perennial

- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 8 Vegetated Non pioneer

4 – Intermittent

- SB STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder
- BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand
- OW OPEN WATER: Unknown Bottom

5 – Unknown Perennial

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

1 – Limnetic

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
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- AB AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- OW OPEN WATER: Unknown Bottom

2 – Littoral

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 8 Vegetated Non pioneer
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder
- BB BEACH BAR: 1 Cobble/Gravel, 2 Sand
- EM EMERGENT: 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent
- OW OPEN WATER: Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM — No Subsystem — CLASS — Subclass

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
- ML MOSS LICHEN: 1 Moss, 2 Lichen
- EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- OW OPEN WATER: Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal

- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal
- U Unknown

Tidal

- K Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity

- 1 Hyperhaline
- 2 Euhaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity

- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water

- a Acid
- i Circumneutral
- i Alkaline

SOIL

- 0 Organic
- n Mineral

SPECIAL MODIFIERS

- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

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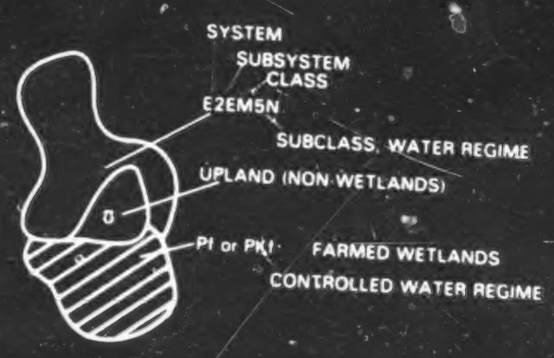

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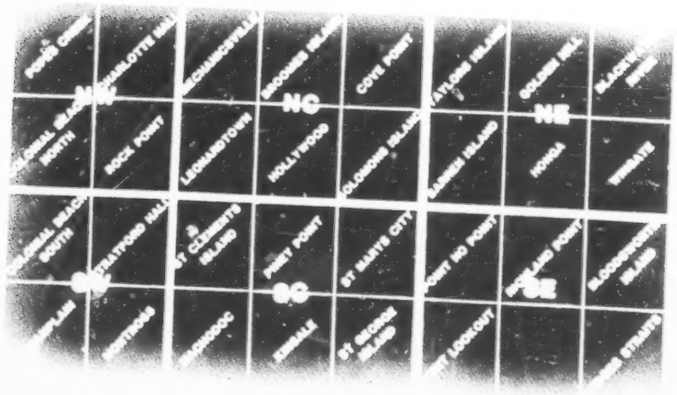
INDEX

WASHINGTON (BE)



AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Subtidal

- RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic
- AB AQUATIC BED: 1 Submergent Algae; 2 Submergent Vascular; 5 Unknown Submergent
- RF REEF: 1 Coral; 3 Worm
- OW OPEN WATER: Unknown Bottom

2 – Intertidal

- AB AQUATIC BED: 1 Submergent Algae; 2 Submergent Vascular; 5 Unknown Submergent
- RF REEF: 1 Coral; 3 Worm
- FL FLAT: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic; 8 Vegetated Non-pioneer
- RS ROCKY SHORE: 1 Bedrock; 2 Boulder; 8 Vegetated Non-pioneer
- BB BEACH BAR: 1 Cobble-Gravel; 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Subtidal

- RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic
- AB AQUATIC BED: 1 Submergent Algae; 2 Submergent Vascular; 3 Floating-leaved; 4 Floating; 5 Unknown Submergent; 7 Unknown Surface
- RF REEF: 2 Mollusk; 3 Worm
- OW OPEN WATER: Unknown Bottom

2 – Intertidal

- AB AQUATIC BED: 1 Submergent Algae; 2 Submergent Vascular; 3 Floating-leaved; 4 Moss; 5 Unknown Submergent; 7 Unknown Surface
- RF REEF: 2 Mollusk; 3 Worm
- FL FLAT: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic; 8 Vegetated Pioneer; 9 Vegetated Non-pioneer
- SB STREAMBED: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic
- RS ROCKY SHORE: 1 Bedrock; 2 Boulder; 8 Vegetated Non-pioneer
- BB BEACH BAR: 1 Cobble-Gravel; 2 Sand
- EM EMERGENT: 1 Persistent; 2 Nonpersistent; 3 Narrow-leaved Nonpersistent; 4 Broad-leaved Nonpersistent; 5 Narrow-leaved Persistent; 6 Broad-leaved Persistent
- SS SCRUB-SHRUB: 1 Broad-leaved Deciduous; 2 Broad-leaved Evergreen; 3 Needle-leaved Deciduous; 4 Needle-leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen
- FO FORESTED: 1 Broad-leaved Deciduous; 2 Broad-leaved Evergreen; 3 Needle-leaved Deciduous; 4 Needle-leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM → Ecological Subsystem → CLASS → Subclass

1 – Tidal

2 – Lower Perennial

3 – Upper Perennial

4 – Intermittent

5 – Unknown Perennial

- EM EMERGENT(1): 1 Nonpersistent; 2 Narrow-leaved Nonpersistent; 4 Broad-leaved Nonpersistent
- RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic
- AB AQUATIC BED: 1 Submergent Algae; 2 Submergent Vascular; 3 Floating-leaved; 4 Floating; 5 Unknown Submergent; 7 Unknown Surface
- FL FLAT: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic; 8 Vegetated Pioneer; 9 Vegetated Non-pioneer
- SB STREAMBED: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic
- RS ROCKY SHORE: 1 Bedrock; 2 Boulder
- BB BEACH BAR: 1 Cobble-Gravel; 2 Sand
- OW OPEN WATER: Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM → No Subsystem → CLASS → Subclass

1 – Limnetic

- RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic
- AB AQUATIC BED: 1 Submergent Algae; 2 Submergent Vascular; 3 Floating-leaved; 4 Floating; 5 Unknown Submergent; 7 Unknown Surface
- OW OPEN WATER: Unknown Bottom

2 – Littoral

- RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic
- AB AQUATIC BED: 1 Submergent Algae; 2 Submergent Vascular; 3 Floating-leaved; 4 Floating; 5 Moss; 6 Unknown Submergent; 7 Unknown Surface
- FL FLAT: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic; 8 Vegetated Pioneer; 9 Vegetated Non-pioneer
- RS ROCKY SHORE: 1 Bedrock; 2 Boulder
- BB BEACH BAR: 1 Cobble-Gravel; 2 Sand
- EM EMERGENT: 1 Nonpersistent; 2 Narrow-leaved Nonpersistent; 4 Broad-leaved Nonpersistent
- OW OPEN WATER: Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM → No Subsystem → CLASS → Subclass

- RB ROCK BOTTOM: 1 Bedrock; 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic
- AB AQUATIC BED: 1 Submergent Algae; 2 Submergent Vascular; 3 Floating-leaved; 4 Floating; 5 Unknown Submergent; 7 Unknown Surface
- FL FLAT: 1 Cobble-Gravel; 2 Sand; 3 Mud; 4 Organic; 8 Vegetated Pioneer; 9 Vegetated Non-pioneer
- RM MOSS-LICHEN: 1 Moss; 2 Lichen
- EM EMERGENT: 1 Persistent; 2 Nonpersistent; 3 Narrow-leaved Nonpersistent; 4 Broad-leaved Nonpersistent; 5 Narrow-leaved Persistent; 6 Broad-leaved Persistent
- SS SCRUB-SHRUB: 1 Broad-leaved Deciduous; 2 Broad-leaved Evergreen; 3 Needle-leaved Deciduous; 4 Needle-leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen
- FO FORESTED: 1 Broad-leaved Deciduous; 2 Broad-leaved Evergreen; 3 Needle-leaved Deciduous; 4 Needle-leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen
- OW OPEN WATER: Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system

WATER REGIME(1)

Non-Tidal

- A Temporary: Saturated
- B Saturated
- C Seasonal: Well-drained
- D Seasonal: Saturated
- E Seasonally Flooded
- F Semipermanent
- G Intermittently Exposed

- H Permanent
- J Intermittently Flooded
- K Artificial
- V Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal
- Z Unknown

Tidal

- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular

- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity

- 1 Hyperhaline
- 2 Euhaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity

- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline

pH Modifiers for all Fresh Water

- + Acid
- = Circumneutral
- - Alkaline

SOIL

- 0 Organic
- 1 Mineral

SPECIAL MODIFIERS

- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

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SYMBOLOGY EXAMPLE

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NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

E2FLN
E1OWL
PFO1R
E2EMP
POWZ
PEMY
PFO1/4Y
PEMC
PEME
P55IR
PFO4A
E2FLM
E2FO14P
E2SS1P
PFO4Y
E2FO4P
E2SS1P
PFO1Y
PFO4R
E2FLN
E2EMP
E2888P
E2EMP
E2EMP
E2EMP

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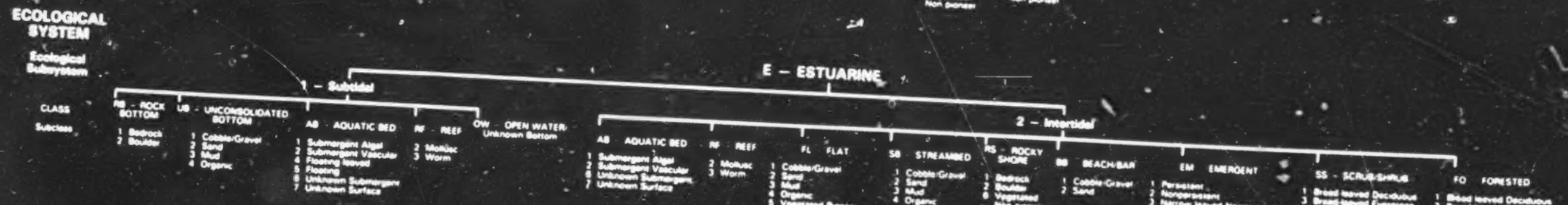

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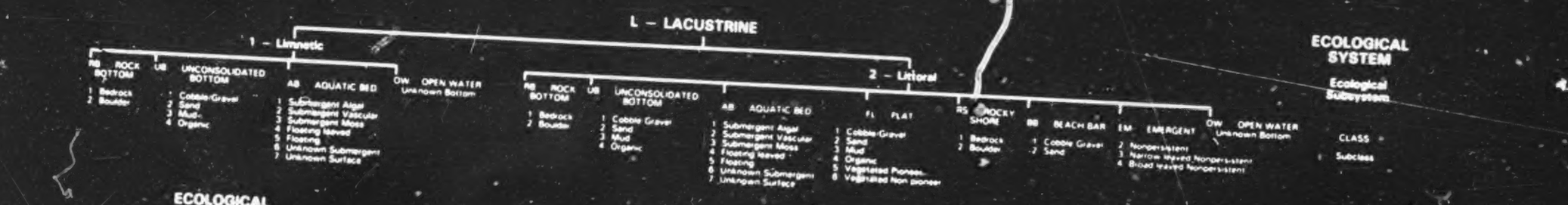

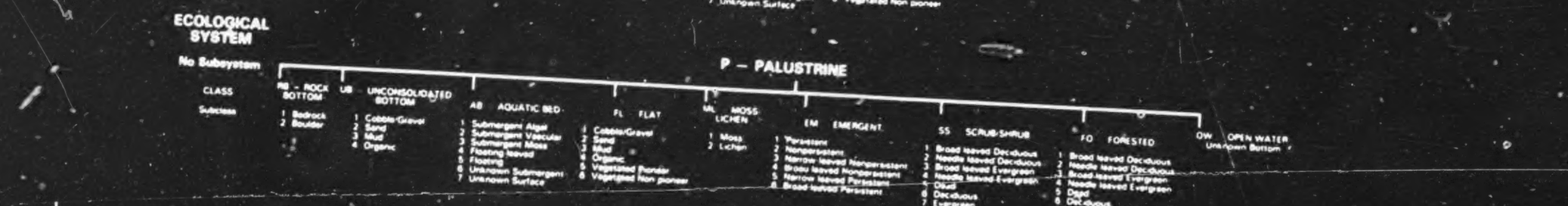

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| WATER REGIME(1) | | |

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NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-12

AERIAL PHOTO 4/48

12

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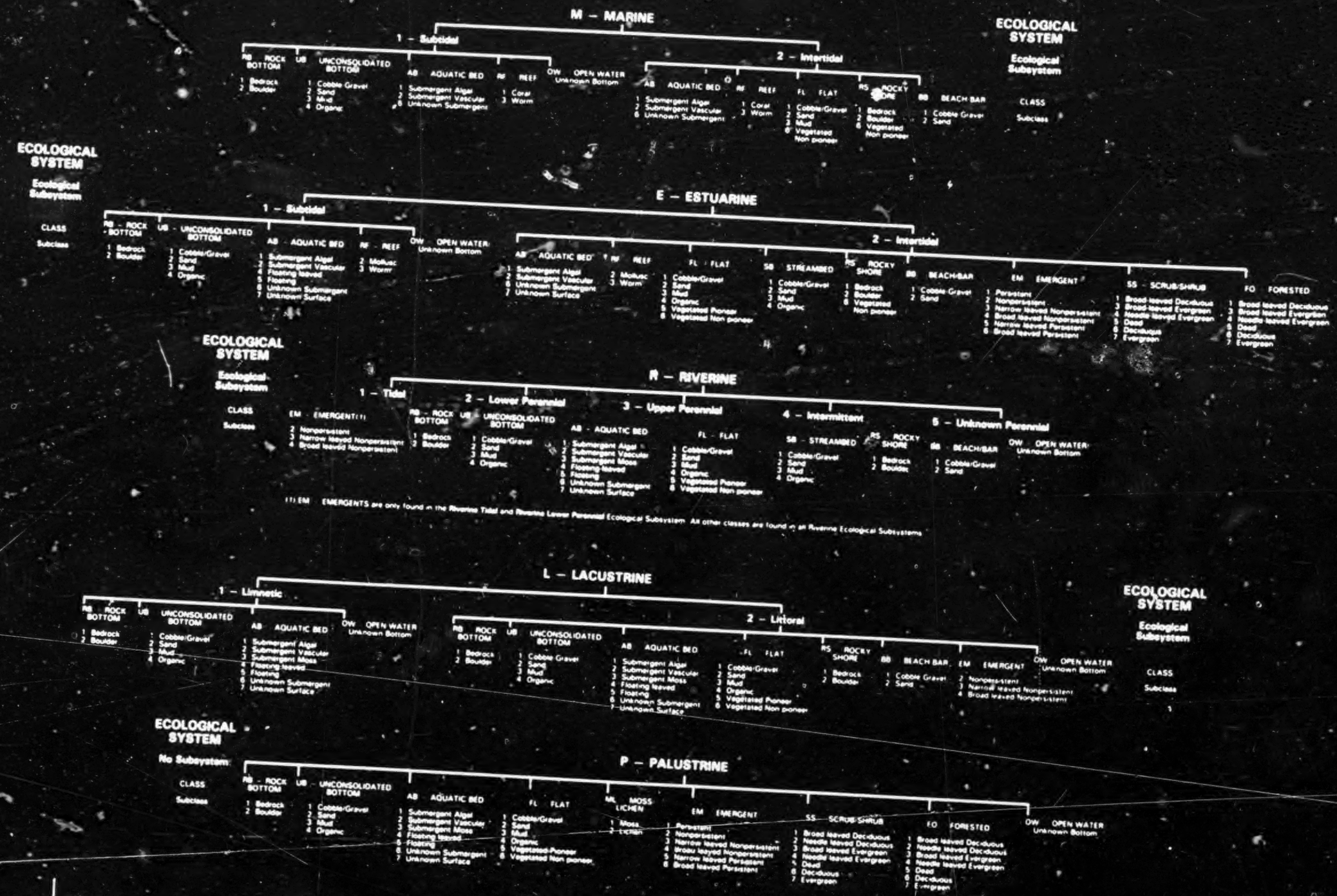

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WATER REGIME(1)

Non-Tidal		Tidal	
A Temporary	H Permanent	K Artificial	R Seasonal Tidal
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C Seasonal		M Irregularly Exposed	T Semipermanent Tidal
D Seasonal Well-drained	Intermittently Exposed/Permanent	N Regularly Exposed	V Permanent Tidal
E Seasonal Saturated	F Intermittently Flooded/Temporary	P Irregular	U Unknown
G Intermittent/Wet-Loggged	Artificial/Semipermanent/Seasonal		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	8 Acid
2 Euhaline	8 Eusaline	9 Circumneutral
3 Mesohaline (Brackish)	9 Mixosaline	0 Alkaline
4 Polyhaline	0 Fresh	
5 Mixohaline		
6 Oligohaline		
0 Fresh		

SOIL

m Organic	
n Mineral	

SPECIAL MODIFIERS

b Beaver	f Diked/Impounded
d Partially Drained/Ditched	i Artificial
f Farmed	r Spoil
	x Excavated

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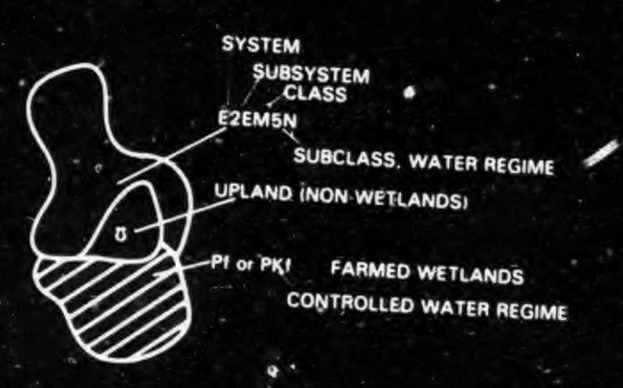

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GRID

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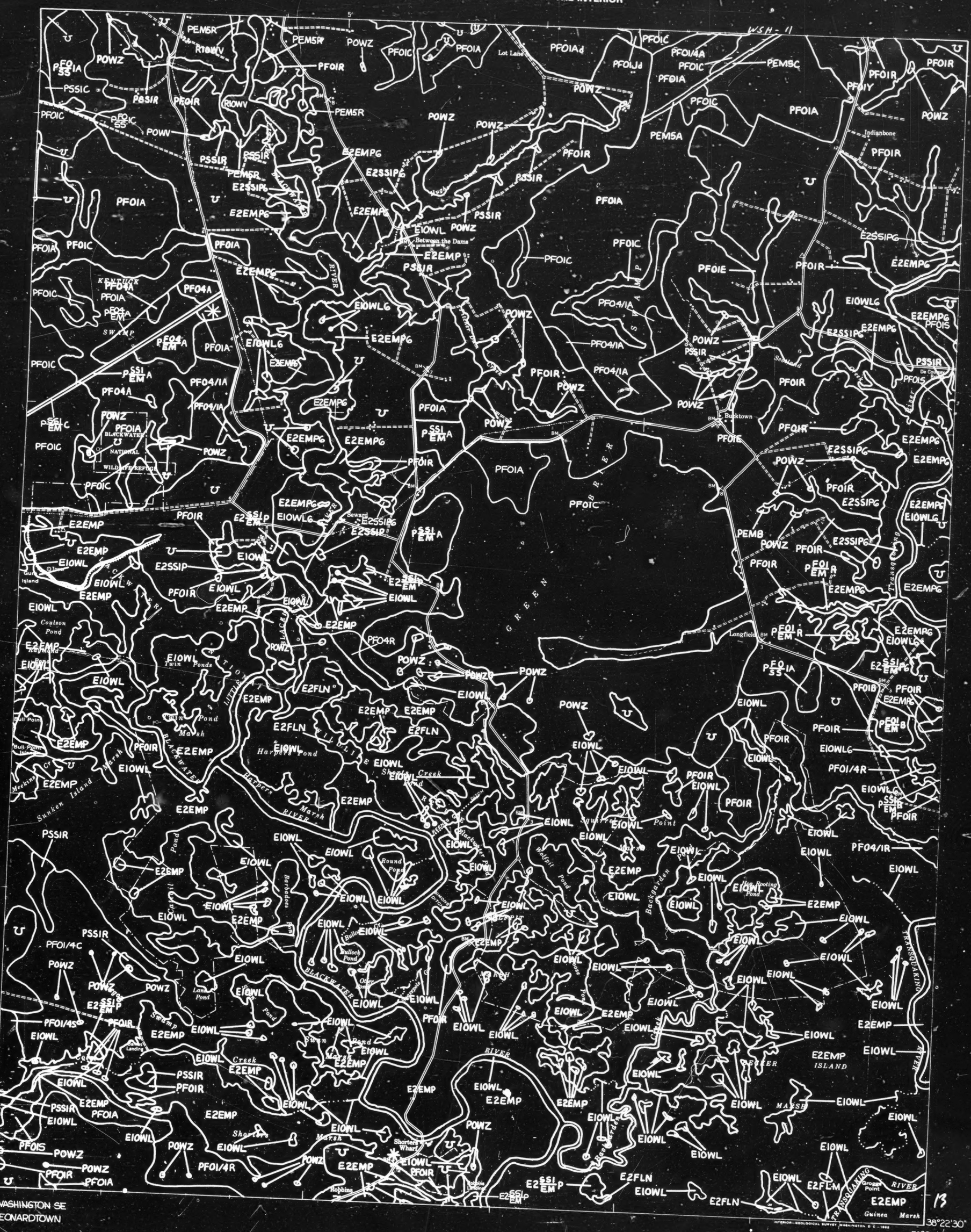
WSH-11



WASHINGTON SE
LEONARDTOWN

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1982

38°22'30"

76°00'

13

BLACKWATER RIVER, MD.

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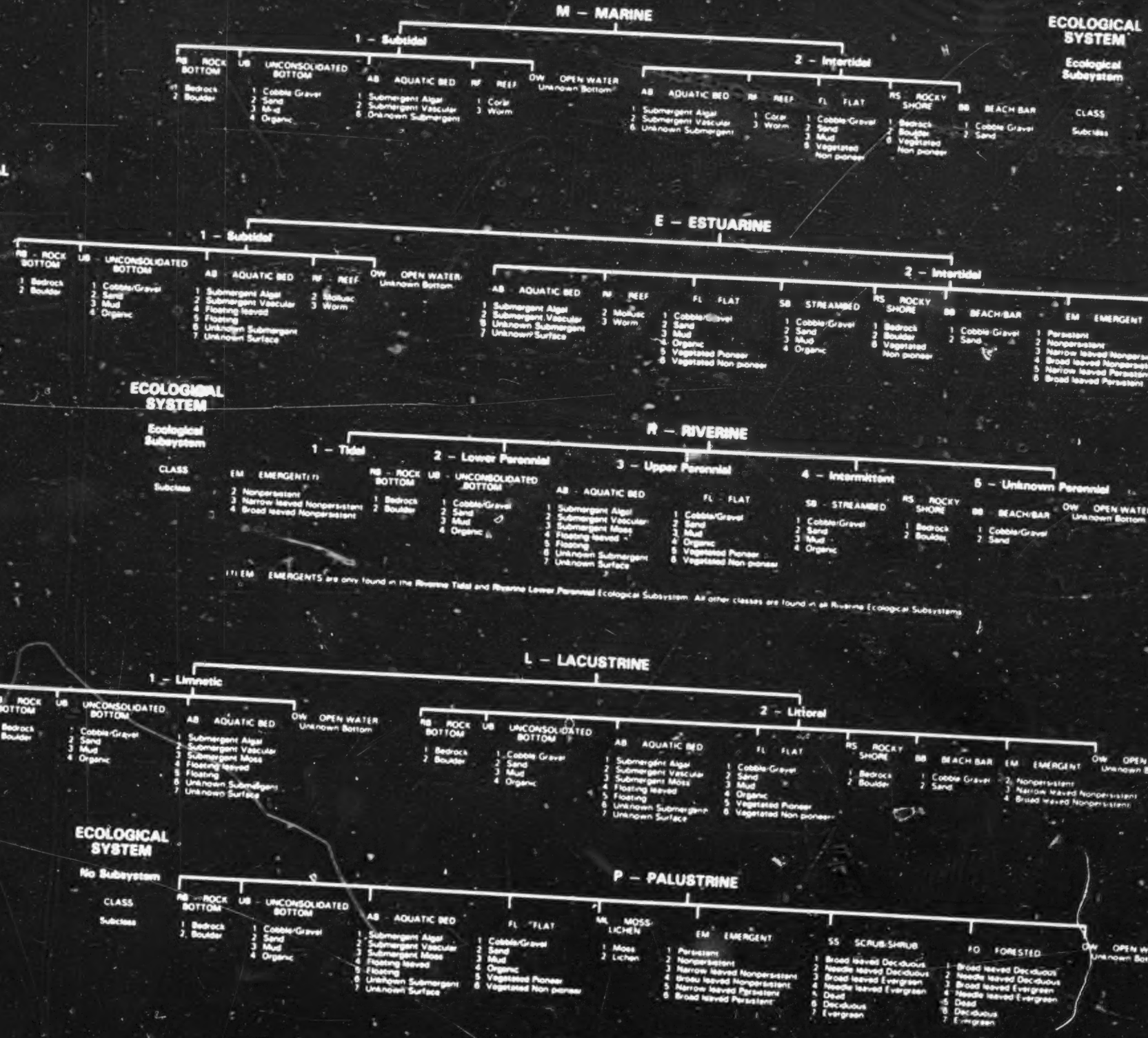

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Non-Tidal
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- a Acid
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- r Alkaline

SOIL
- 9 Organic
- n Mineral

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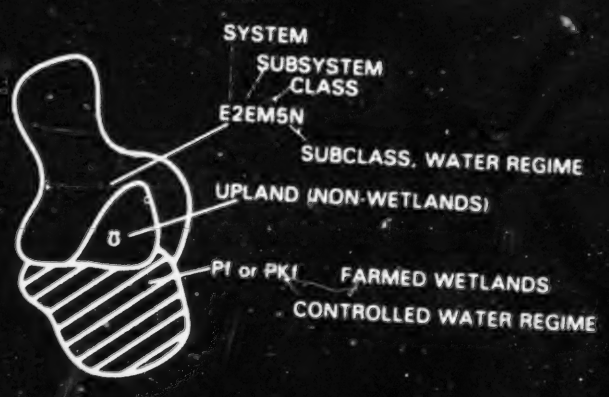

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NATIONAL WETLANDS INVENTORY

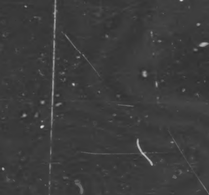
UNITED STATES DEPARTMENT OF THE INTERIOR

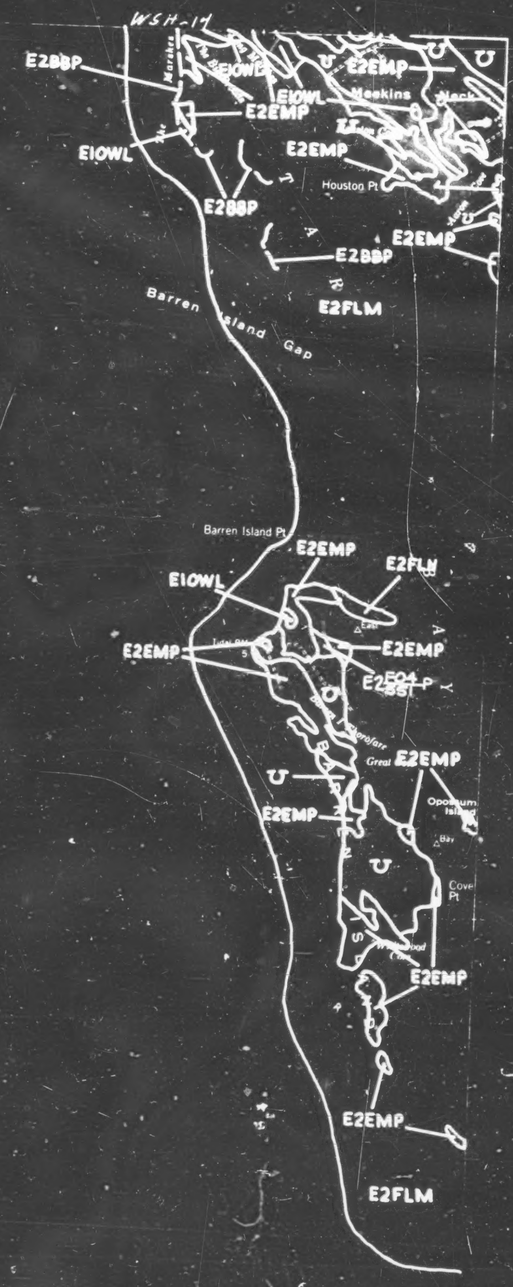
DORCHESTER CO
CALVERT CO

CHESAPEAKE BAY

CALVERT CO
ST MARYS CO

E1OWL





DORCHESTER CO
ST MARYS CO

WASHINGTON SE
LEONARDTOWN

SCALE 1:24 000

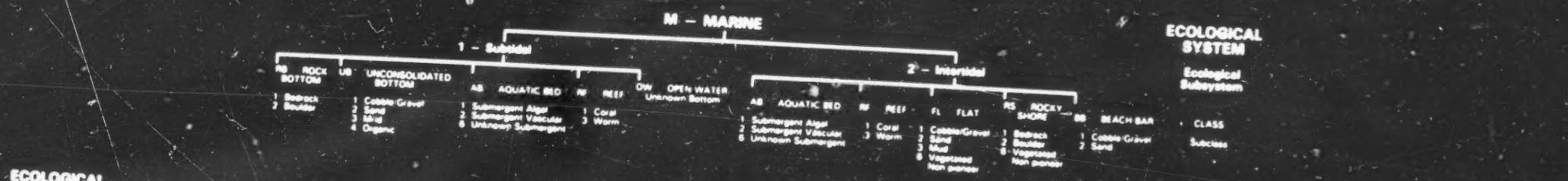
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
MILE
0 1 KILOMETER

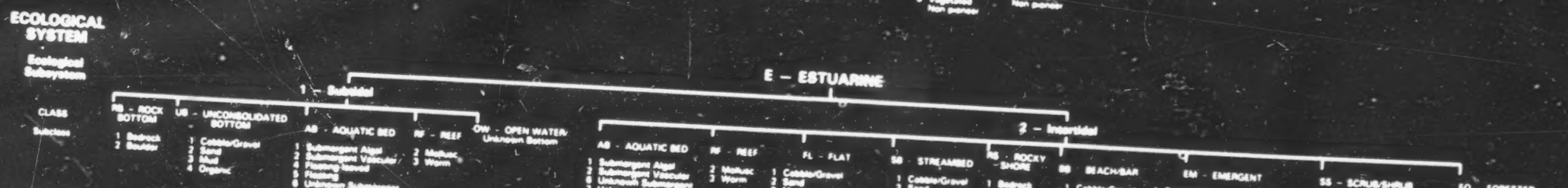
AERIAL PHOTO 4/78

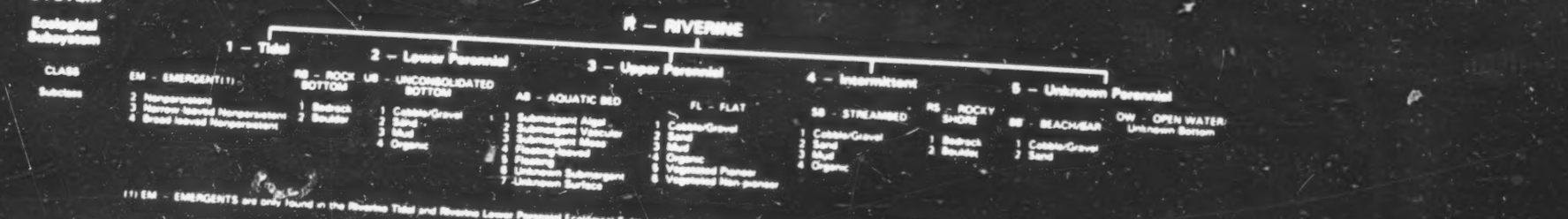
BARREN ISLAND, MD

WETLAND LEGEND

0 – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.







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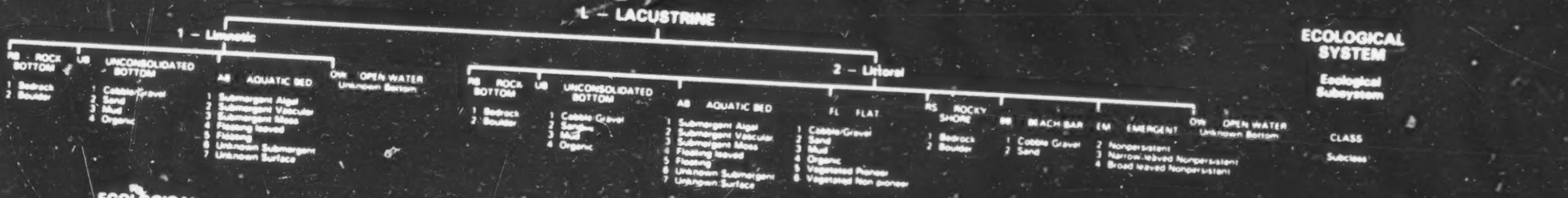

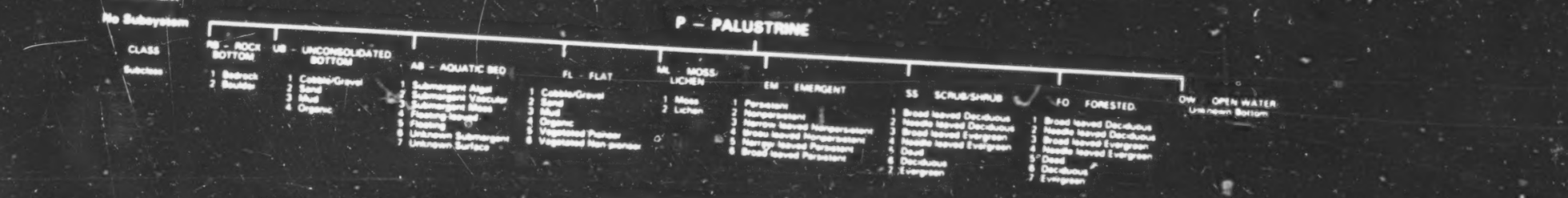

MODIFYING TERMS

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| WATER REGIME(1) | | |

AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

W SH-13

E2EMP
E1OWL
E2FLM
E2SSIP
PF01R
PF04R
POWZ
PSSIR
PSSIY
PF01/4S
PF01Y
R1OWV
PF04Y
PSSIE
PEMY
PEME
PF04C
PF01/4R
E2SSIR
E2FLN
E2SSIY
E2FO4P
E2SS1P
E2SS1R
E2SS1Y
E2SS1E
E2SS1C
E2SS1F
E2SS1M
E2SS1N
E2SS1S
E2SS1T
E2SS1W
E2SS1Z
E2SS1A
E2SS1B
E2SS1D
E2SS1G
E2SS1H
E2SS1J
E2SS1K
E2SS1L
E2SS1O
E2SS1Q
E2SS1U
E2SS1V
E2SS1X
E2SS1Y
E2SS1Z
E2SS2P
E2SS3P
E2SS4P
E2SS5P
E2SS6P
E2SS7P
E2SS8P
E2SS9P
E2SS0P
E2SS1P

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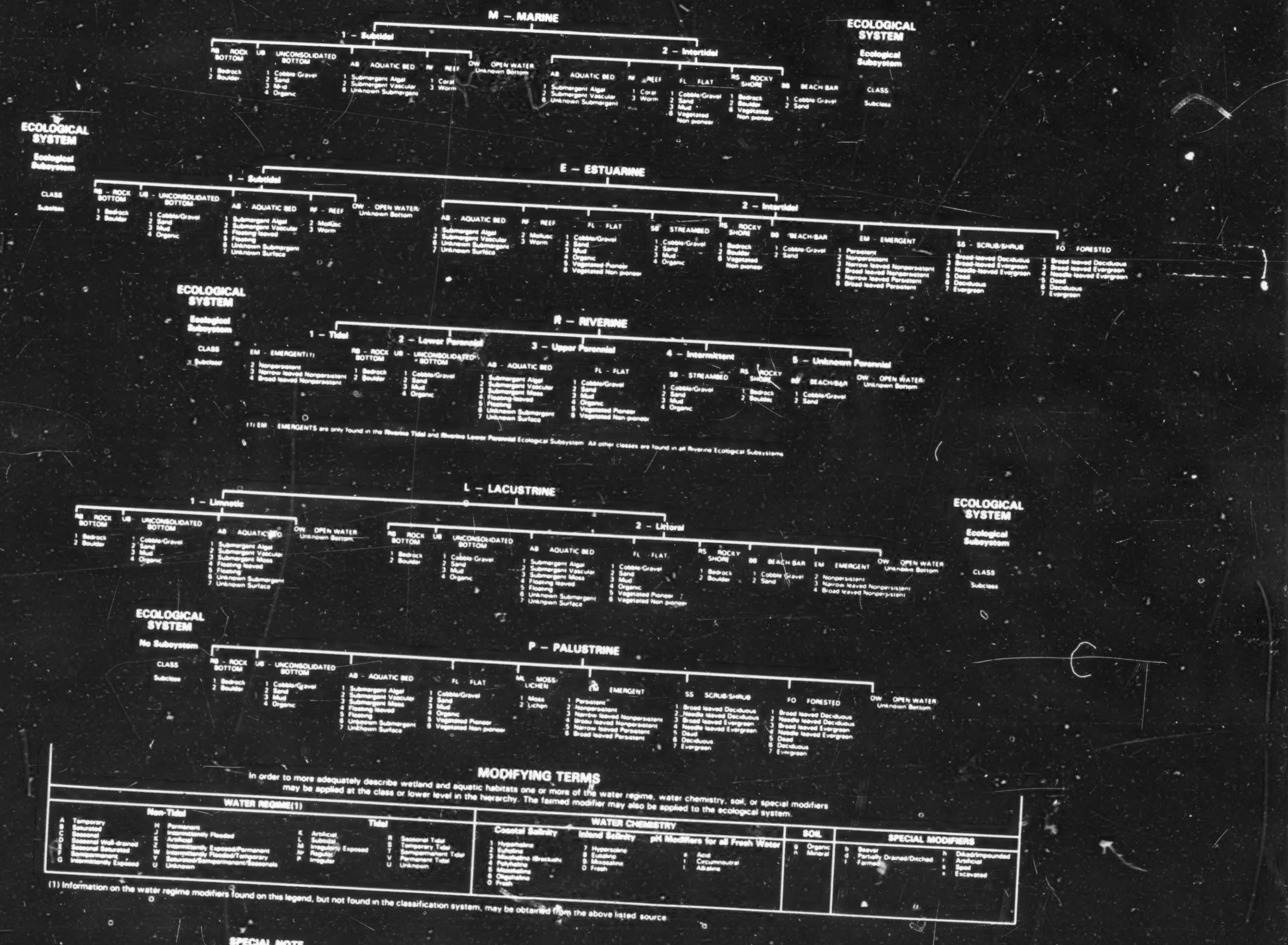

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WATER REGIME(1)								WATER CHEMISTRY				SOIL	SPECIAL MODIFIERS	
Non-Tidal			Tidal					Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water				
A Temporary	H Permanent		R Artificial,		S Seasonal Tidal			1 Hypersaline	5 Hypersaline		e Acid	b Organic	s Beaver	d Diked/Impounded
B Saturated	J Intermittently Flooded		Partially Drained		T Temporary Tidal			2 Eusaline	6 Eusaline		c Circumneutral	m Mineral	p Partially Drained/Ditched	h Beaver and Diked/Impounded
C Seasonal	K Artificial		V Intermittently Exposed		A Intermittent Tidal			3 Mixosaline	7 Mixosaline		i Alkaline		f Farmed	x Excavated
E Seasonal (Well-drained)			W Semipermanently Flooded		B Permanent Tidal			4 Polysaline	8 Fresh					
F Semipermanent			Y Intermittently Exposed/Permanent		C Irregular			9 Unknown						
G Intermittently Exposed			Z Artificially Flooded/Impounded/Drained		U Permanent Tidal									
			U Unknown		V Unknown Tidal									

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with Classification of Wetlands and Deep-Water Habitats of the United States (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

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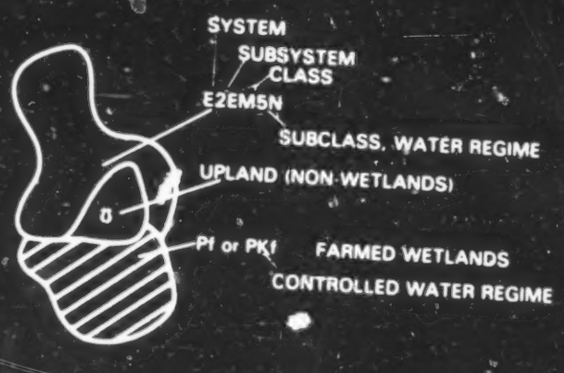
SYMBOLOGY EXAMPLE



NOTES TO THE USER

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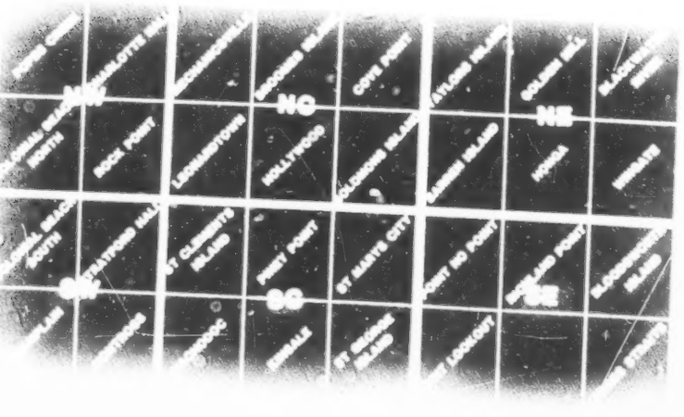


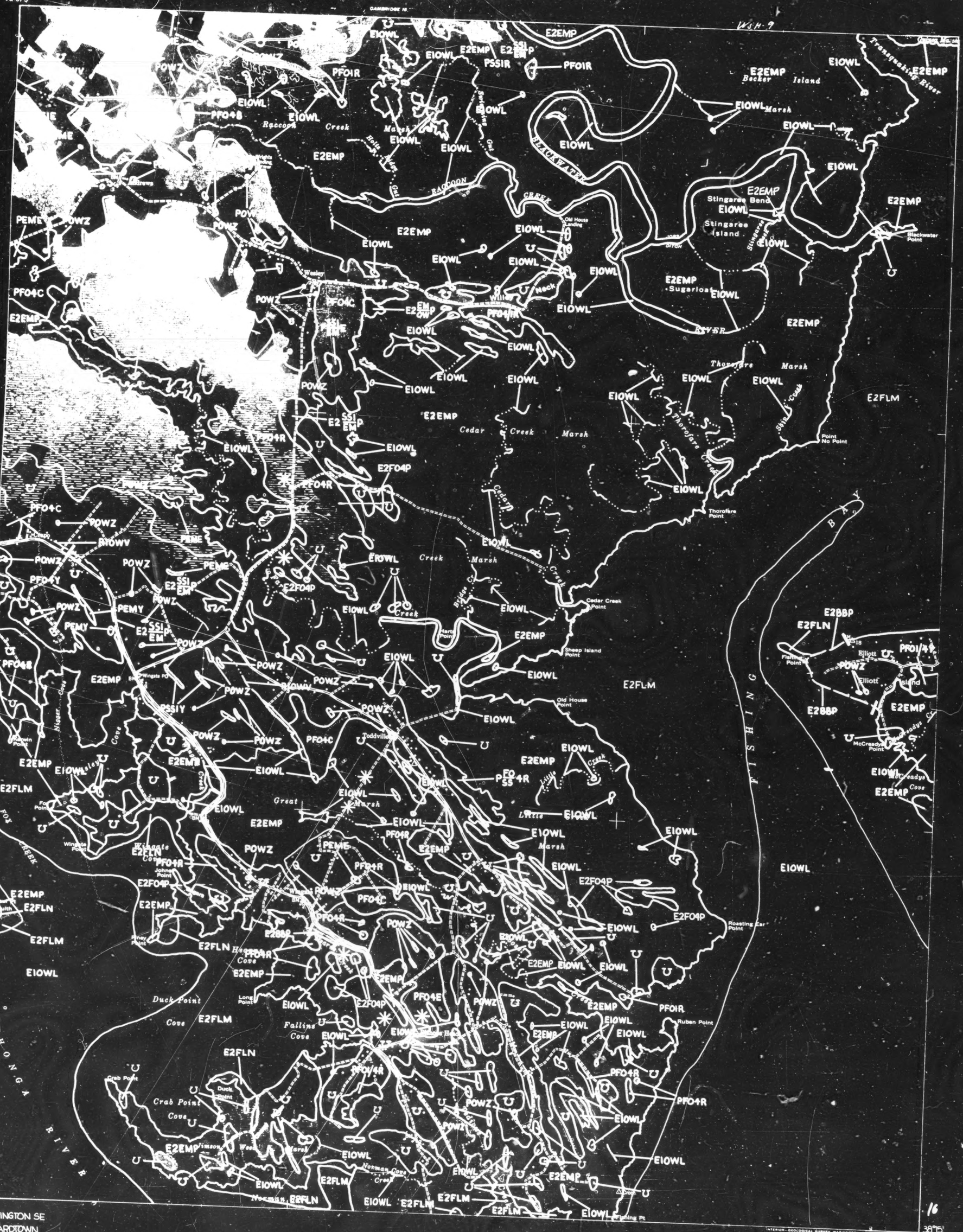
AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

76°07'30"

WSH-9



WASHINGTON SE
LEONARDTOWN

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
0 1 MILE
0 1000 2000 METERS

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1982

38°15'

76°00'

AERIAL PHOTO 377

WINGATE, MD

16

WETLAND LEGEND

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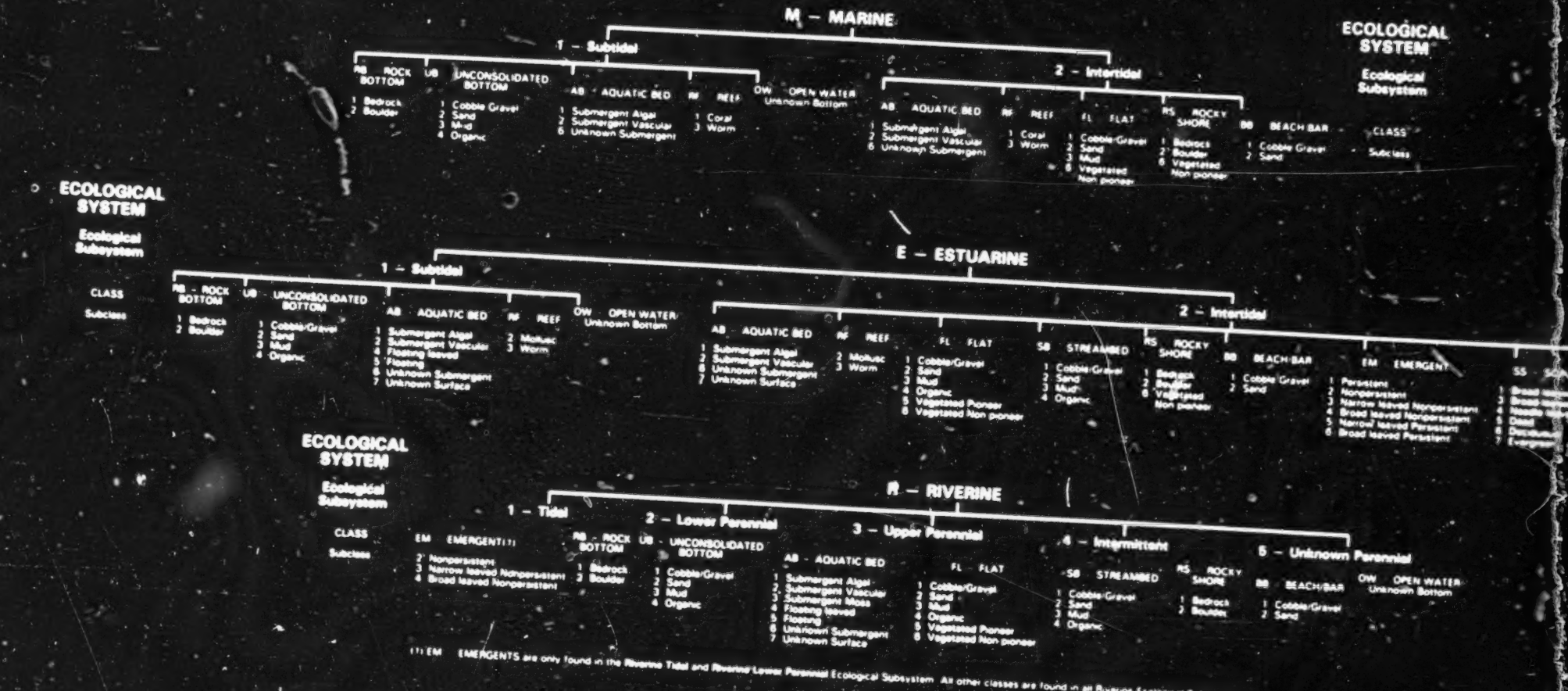

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- V Saturated/Semipermanent/Seasonals
- U Unknown

Tidal
- K Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hyperhaline
- 2 Euhaline
- 3 Mesohaline (Brackish)
- 4 Polyhaline
- 5 Mixohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- i Circumneutral
- b Alkaline

SOIL
- g Organic
- n Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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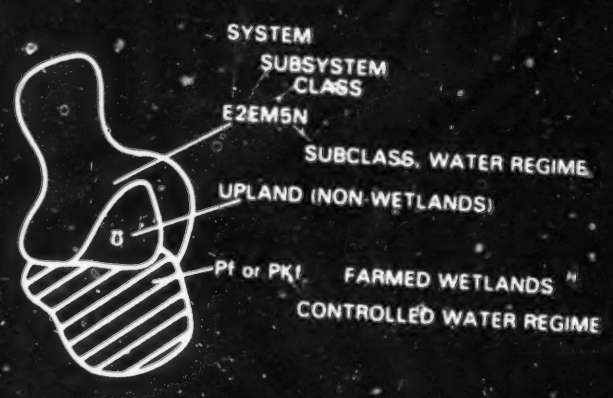
SYMBOLOGY EXAMPLE



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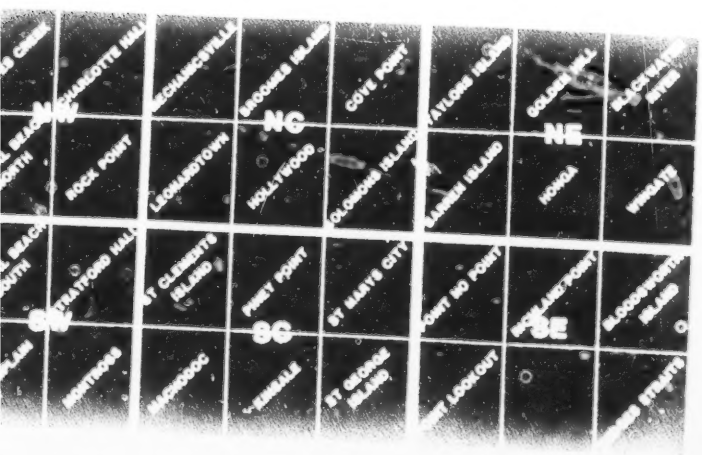
MICHE... INDEX
WASHINGTON (SE)
LEONARDTOWN



AF 1406AC-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-19

E2EMP
E2SSIP
E2FLM
E1OWL
POWZ
PFO1A
PFO1Y
PFO1C
PFO1E
PFO1R
R1OWV
L1OWHh
E2BBP
PEMS
PSSIY
PSSIE
PEMB
PEME
Colonial Beach
POTOMAC RIVER
CHARLES CO
WESTMORELAND CO
MONROE BAY
MATTOX CREEK
Bridges Creek
Monroe Hall
Oak Grove
Latanes
Burnt House Pt
Point of Pt
Church Point
Morris Store
Baynesville
Harbor View Airport
Columbia Cove
Devils Reach
Low Pt
High Pt
Robins Grove Pt
Dickson Pt
Trotts Pt
Doctor Sebastian Pt
Boat Ramp
Bridges Cr Landing
Buck Hall Point
Great I
Wakefield Mansion
Wakefield Corner
Flat Iron
Rabbit Point
Payne's Point
Columbia Cove
Harbor View Airport
Burnt House Point
Point of Pt
Red Pt
Blake Pt
Surma
Potomac Mills
Morris Store
Flat Iron
Baynesville
Colonial Beach
Oak Grove
Latanes
Wakefield Corner
Bridges Creek
Monroe Hall
Burnt House Pt
Point of Pt
Church Point
Morris Store

WETLAND LEGEND

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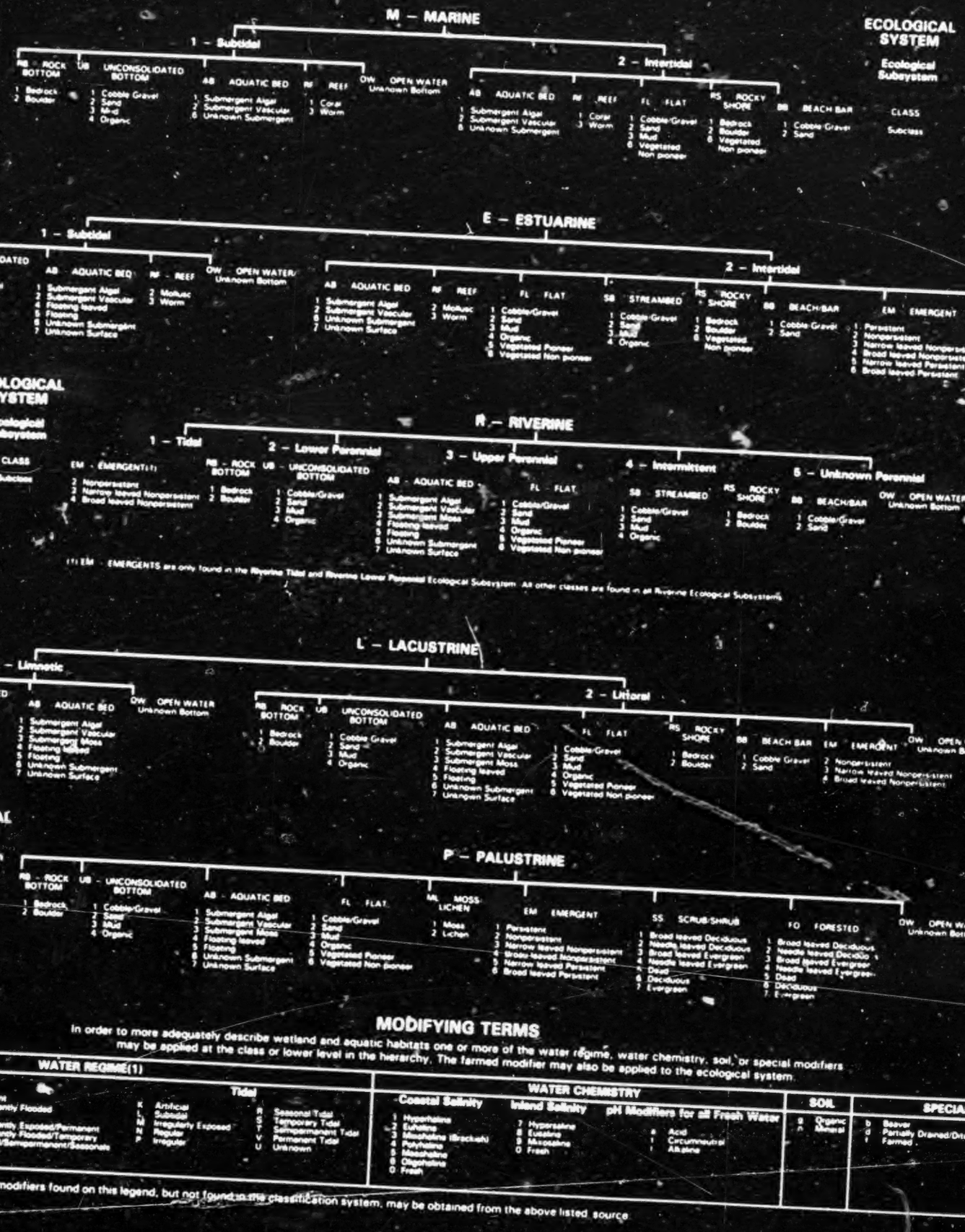

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Non-Tidal		Tidal			
A Temporary	H Permanent	K Artificial	R Seasonal Tidal		
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C Seasonal	E Artificial	M Irregularly Exposed	T Semipermanent Tidal		
D Seasonal Well-drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal		
F Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown		
G Semipermanent	Y Saturated/Semipermanent/Seasonal				
Q Intermittently Exposed	U Unknown				

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
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2 Euhaline	8 Eusaline	i Circumneutral
3 Mesohaline (Brackish)	9 Mesohaline	n Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

9	Organic
A	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partially Drained/Ditched	r	Artificial
f	Farmed	s	Spoil
		x	Excavated

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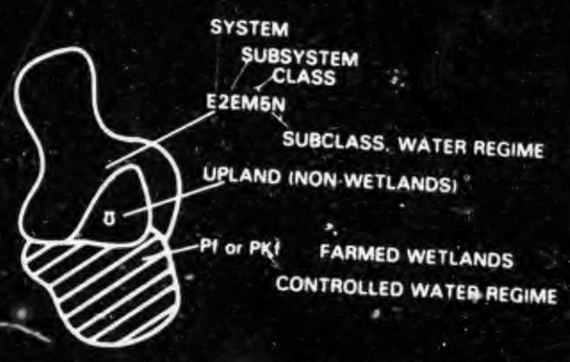

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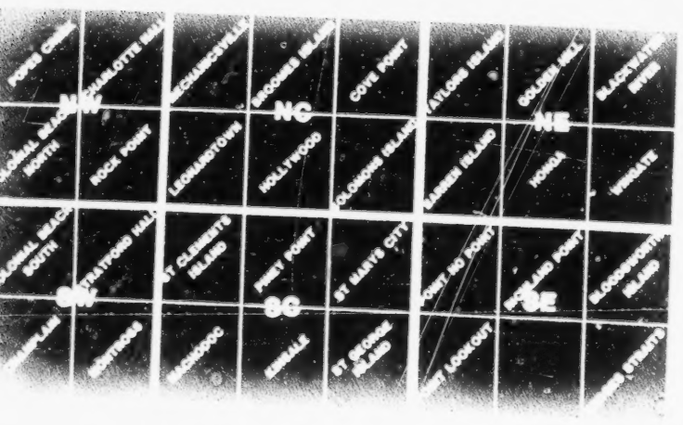
MICHIGAN INDEX WASHINGTON (SE) QUADRANGLE



NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

E2FLN
E2FLM
CHARLES CO
ST MARYS CO
E1OWL
E2EMP
E2BBP
E2FLN
Yellow Bank
Windmill Point
Whites Neck Pt
Windmill Point
E2BBP
E2EMP
River Springs
PFOIR
E2EMP
POWZ
E2EMP
St Catherine Island
E2BBP
E2FLM
E2FLN
E2BBP
E2FLM
E1OWL
Waterloo Pt
E2EMP
E2EMP
E2FLM
E2FLM
Coltons Point
E2BBP
Coltons Pt
Dukeharts Channel
E2FLM
E1OWL
POTOMAC RIVER
CHARLES CO
ST MARYS CO
MARYLAND
E2FLM
PFO1A
PFO1B
E2EMP
PFO1Y
POWZb
PEMEb
WESTMORELAND STATE PARK
Campground
Stratford Cliffs
Stratford Hall
POWZ
PFO1A
POWZ
PFO1A
PFO1A
PFO1A
Lerty
PFO1A
POWZ
PFO1C
PFO1A
POWZ
POWZ
PFO1A
PFO1C
PEMEb
PFO1Y
POWZ
PFO1Y
PFO1Y
POWFb
PFO1C
POWFb
POWFb
PFO1E
Chiltons
Cem
POWFb
PFO1A
E2BBP
E2EMP
SSI EM
E2BBP
E2BBP
E2EMP
E2BBP
Haulover Pt
E2FLM
SSI EM
Williams Pt
E1OWL
Currioman Landing
POWZ
E2EMP
E2FLM
E2BBP
Asparagus Pt
E2EMP
E2EMP
E2FLN
PFO1R
PFO1Y
POWZ
PEMY
SSI EM
E2FLM
E2EMP
E2EMP
PFO1A
E2FLM
Cem
Chantilly Hill
Tidal Flat
Swamp
Bryant Cem
Cem
Providence Ch
Cem
Cem
Old Stratford
Cem
Old Stratford
Cem
Cem
Cem

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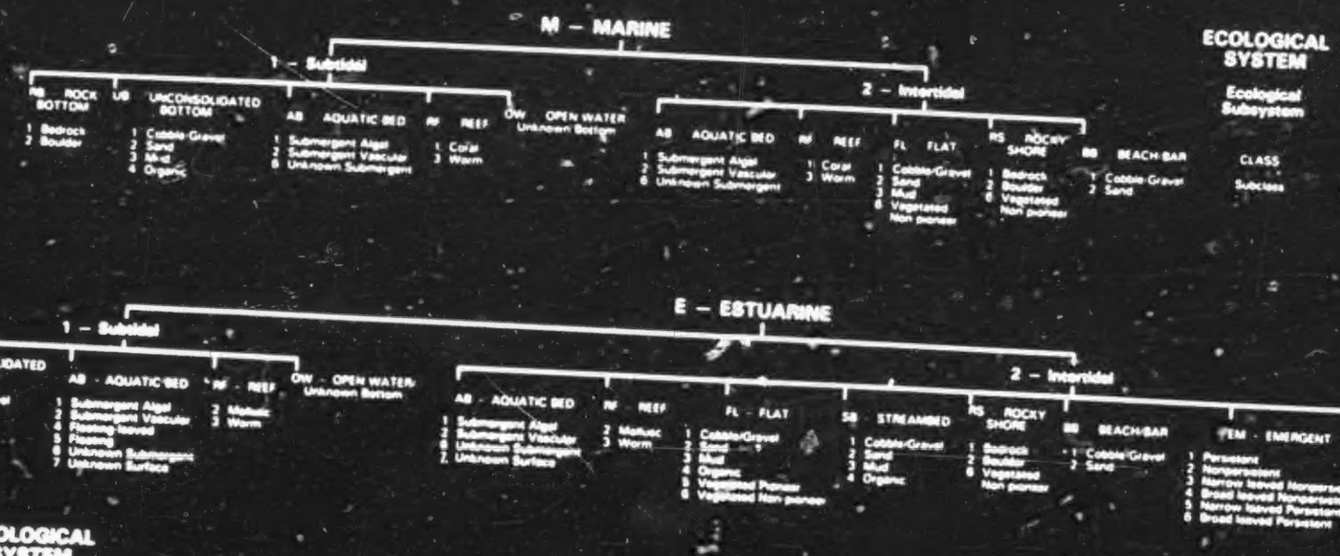

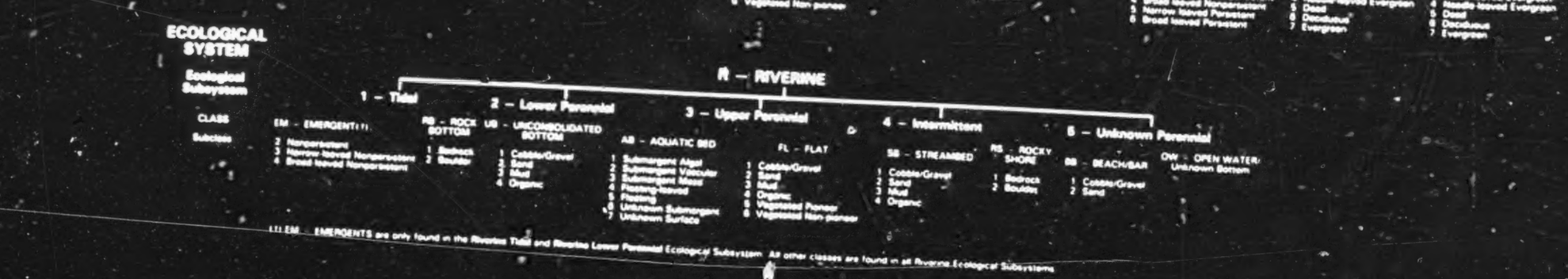

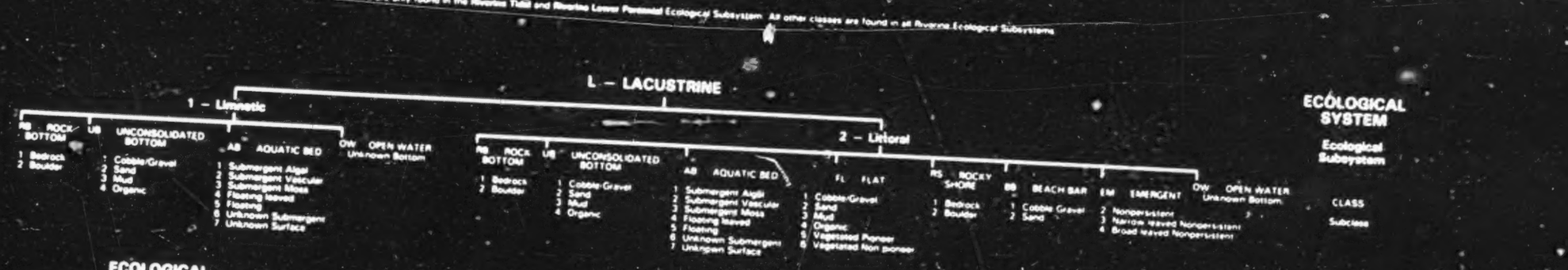

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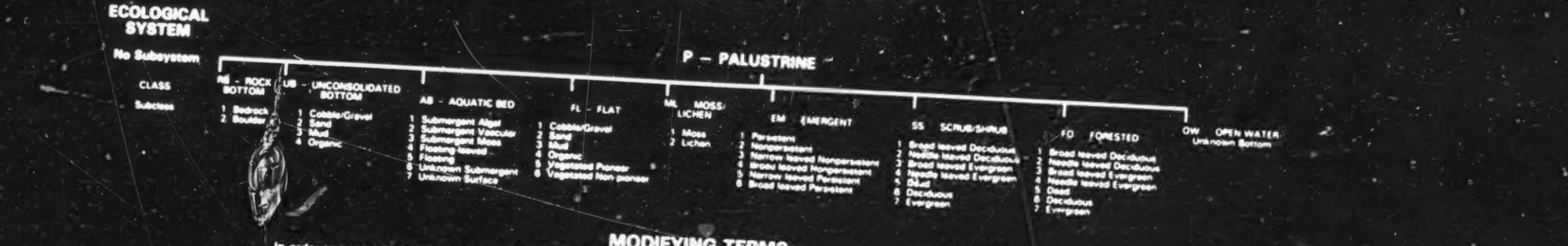

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C	Seasonal	Z	Artificial	M	Irregularly Exposed	T	Semipermanent Tidal
D	Seasonal Well-Drained	G	Intermittently Exposed/Permanent	N	Regular	V	Permanent Tidal
E	Seasonal Saturated	V	Intermittently Flooded/Temporary	P	Irregular	U	Unknown
F	Semipermanent	W	Saturated/Semipermanent/Seasonal				
G	Intermittently Exposed	U	Unknown				

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3 Mixohaline (Brackish)	9 Mixosaline	i Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

1	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partially Drained/Ditched	r	Artificial
f	Farmed	s	Spoil
		x	Excavated

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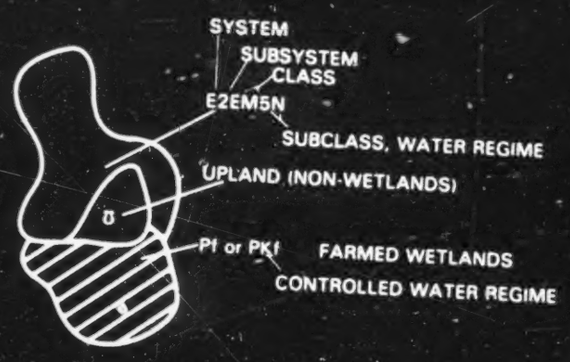
SYMBOLOGY EXAMPLE



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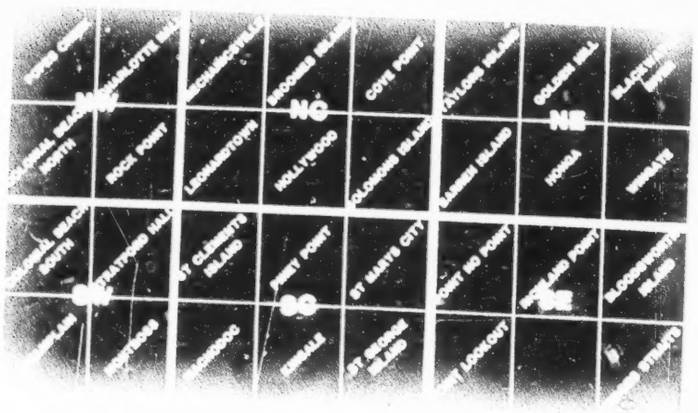
INDEX
WASHINGTON (SE)



AF 14064C-D

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-3

PFOIE
PSSIY
EM
POWZ
PEMB
PFOIR
PEME
PFOIY
PSSIR
RIOWV
Leedstown
Otterburn
ESSEX CO
KING & QUEEN CO
PEMR
Layton
RAPPAHANNOCK
Hutchinson
Smith Mountain Landing
Peeds
PEMY
PSSIE
PFOIA
Fenneswood
Singorly
Oak Row
Luke Island
Ridge
Simpots Landing
Jones Landing
Island Point
Daingerfield Landing
Blandfield Point
Mulberry Island
Beverly Marsh
Beverly Marsh Cr
Payne Creek
Payne Island
RICHMOND CO
ESSEX CO
LAWSON NECK
THOMAS NECK
PAYNES NECK
RIVER
E2EMP
EIOWL
L2ABZh
LIOWHh
PSSIA
PEMC
PFOIC
PSSIR
PFOIR
PFOIA
PABZ
POWZ
PEME
PFOIY
PSSIB
E2EMP
PFOIA
PFOIC
PSSIE
PFOIE
PEME
PFOIA
PFOIA
PFOIA

WETLAND LEGEND

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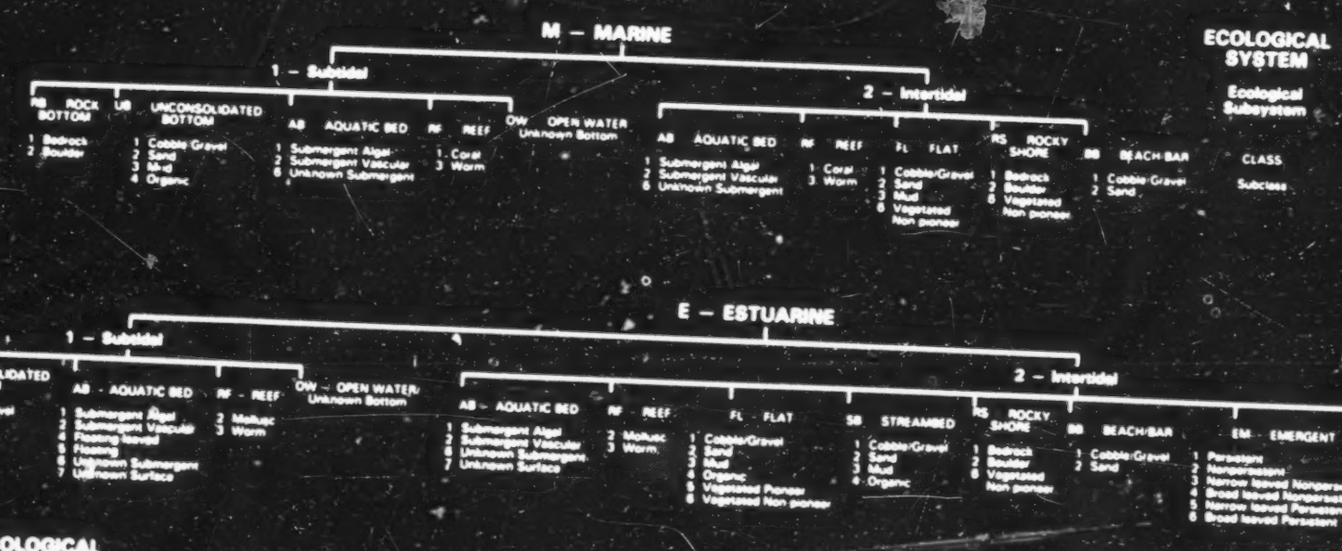

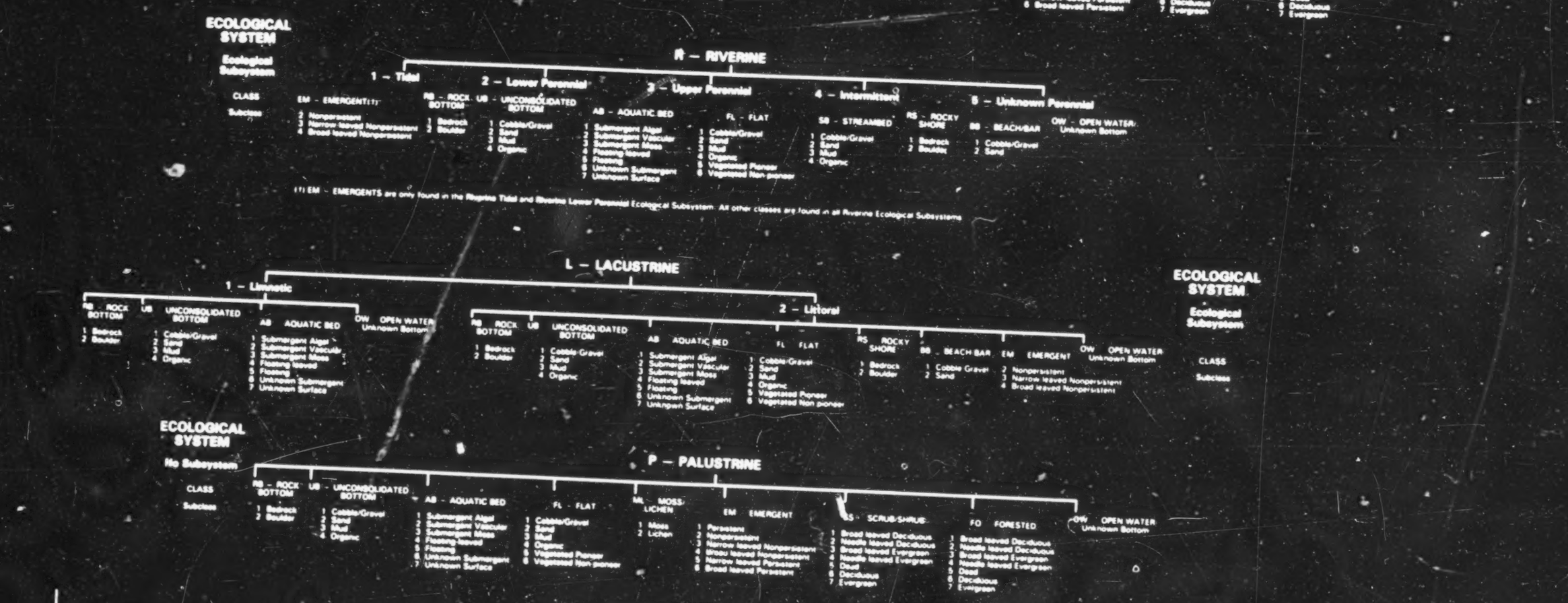

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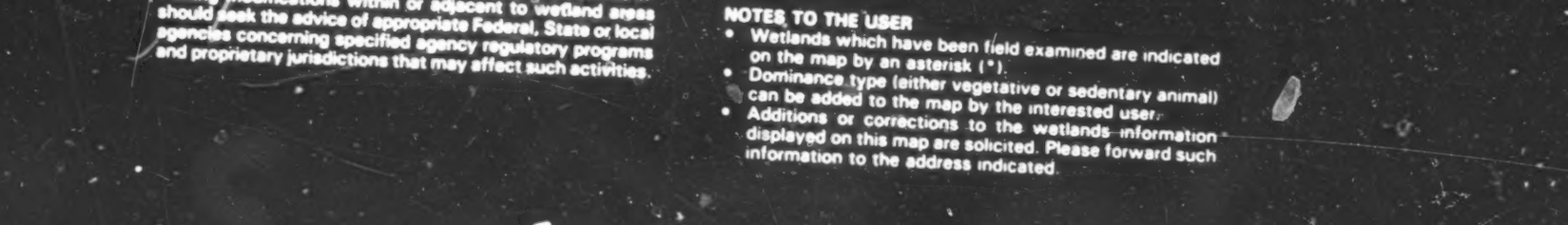

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WATER REGIME(1)

	Non-Tidal		Tidal	
A	Temporary	H Permanent	K Artificial	R Seasonal Tidal
B	Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C	Seasonal	K Artificial	M Irregularly Exposed	T Semipermanent Tidal
D	Seasonal Well-drained	N Intermittently Exposed/Permanent	P Regular	V Permanent Tidal
E	Seasonal Saturated	W Intermittently Flooded/Temporary	R Irregular	U Unknown
F	Semipermanent	Y Saturated/Semipermanent/Seasonal		
G	Intermittently Exposed	U Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	a Acid
2 Euhaline	8 Eusaline	t Circumneutral
3 Mixohaline (Brackish)	9 Mixosaline	i Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

8	Organic
R	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partly Drained/Ditched	r	Artificial
f	Farmed	s	Spoil
		x	Excavated

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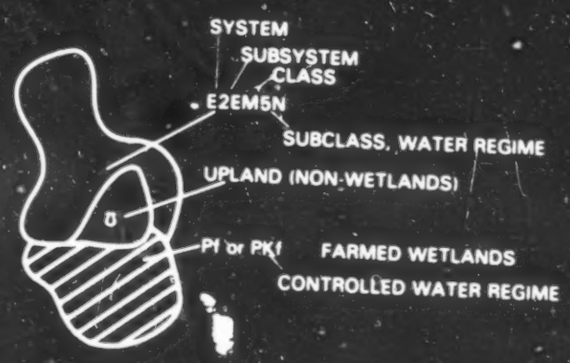

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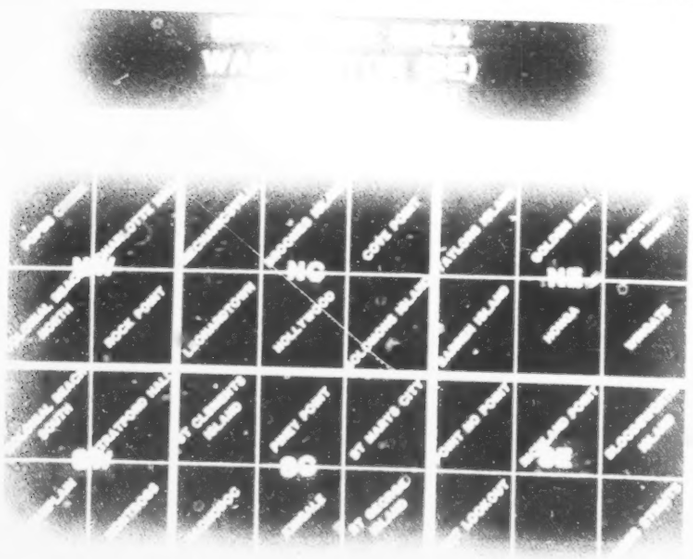
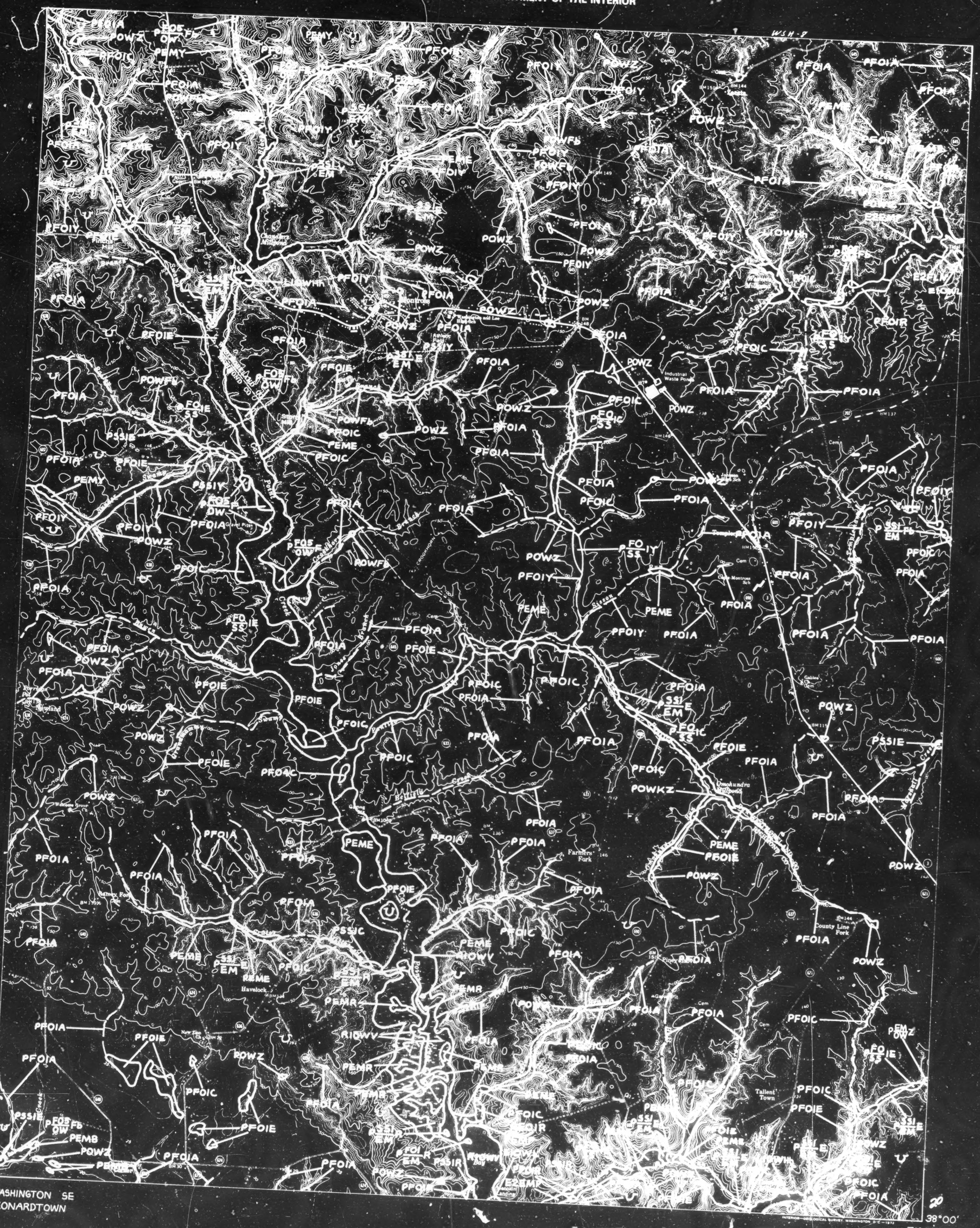


AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



WASHINGTON SE
LEONARDTOWN

SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 MILE
1 KILOMETER

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1972

38°00'
76°45'

AERIAL PHOTO 348

MONTROSS, VA.

WETLAND LEGEND

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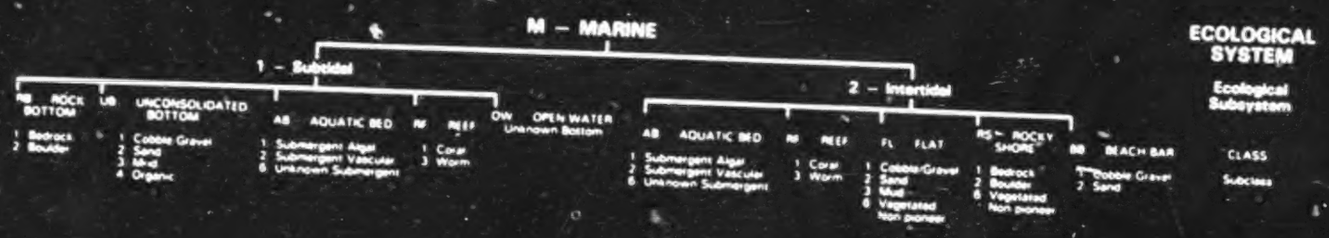

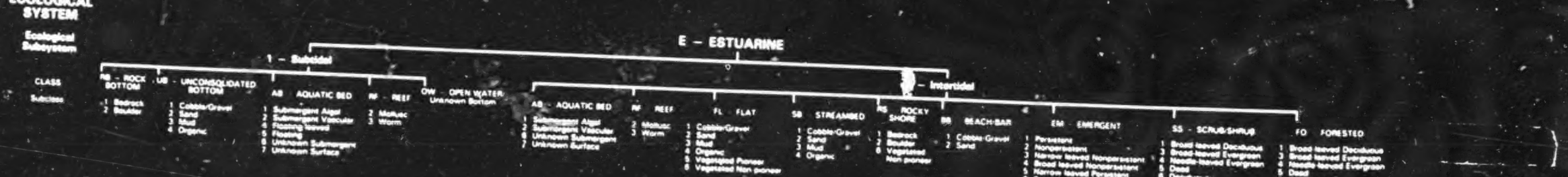

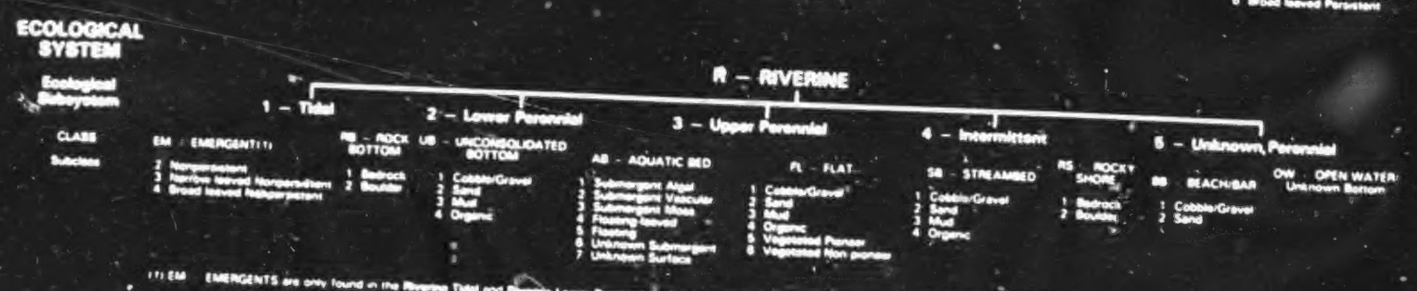

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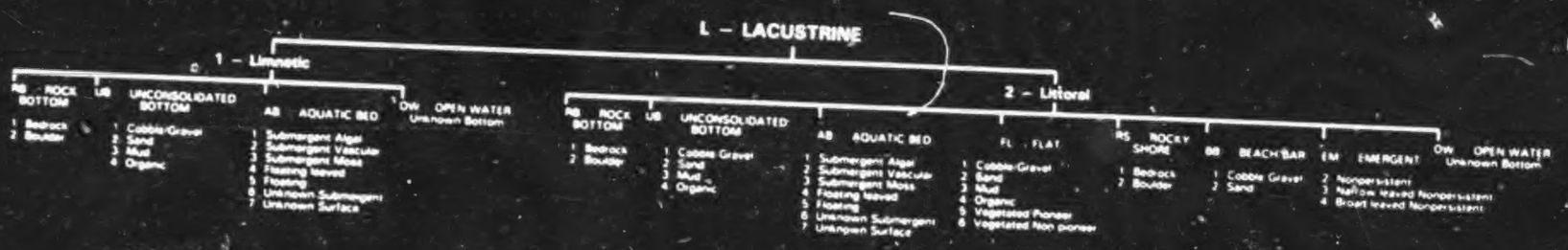

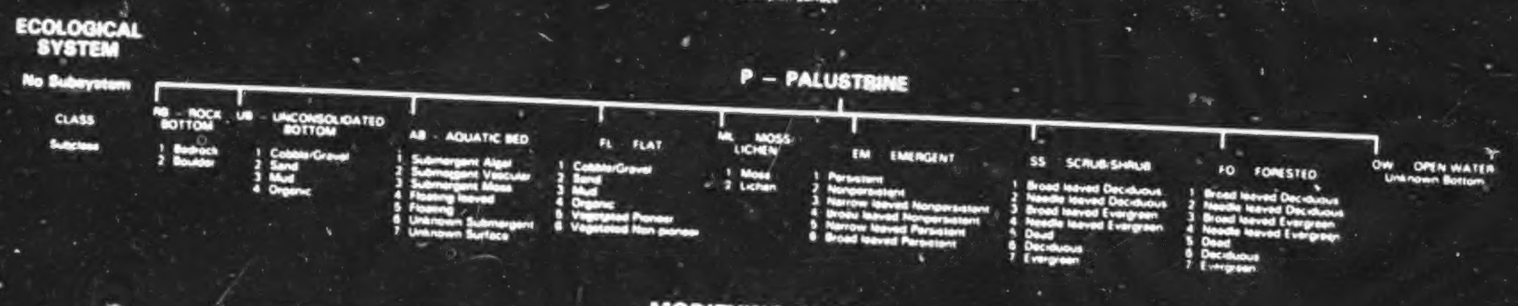

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Non-Tidal		Tidal			
A Temporary	H Permanent	K Artificial	R Seasonal Tidal		
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C Seasonal	K Artificial	M Irregularly Exposed	T Semipermanent Tidal		
D Seasonal Well-drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal		
E Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown		
F Semipermanent	Y Saturated/Semipermanent/Seasonal				
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4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

g Organic	
n Mineral	

SPECIAL MODIFIERS

b Beaver		h Diked/Impounded	
d Partially Drained/Ditched		r Artificial	
f Farmed		s Spoil	
		x Excavated	

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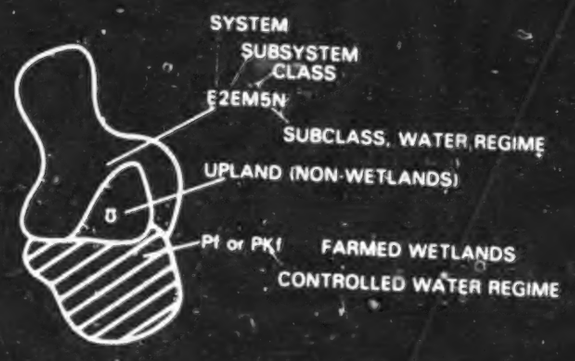

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AF T4064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH #21

E2EMP
E1OWL
E2FLM
E2FLN
E2BBP
POWZ
PSSIR
PFOIR
PFOIE
PFOIA
E2SSIP
PEMC
PFOIC
ST CLEMENTS BAY
BRETON BAY
POTOMAC RIVER
NOMINI BAY
MACHODOC NECK
WEDLEYS NECK
Newtown Neck
Breton Beach
Coltons Point
St Clements Island
Piney Point
Point Lookout
Cedar Point
Cobb Island
Bretton Beach
White Point Beach
Lighthouse Pt
Cobb Point Cr
Weatherall Cr
Harbor
Cabin Pt
Calhoon
Bettys Pond
Kingcousico Pt
Clem Pt
Payne Pt
Cornish Pt
Blue Sow
Huggins Pt
Protestant Pt
Coles Pt
Stony Bar
Grapevine Pt
Gravel Pt
Danger Pt
Aimes Pt
Snake Island
Buckhorn
Matthews Cove
Hollis
Elbow Pt
Jack Pt
Fenn Island
Bar
ST MARYS CO
WESTMORELAND CO
MARYLAND
VIRGINIA
E2SSI EM P
E2FLN
E2BBP
E2EMP
E1OWL
E2FLM
E2SSIP
PEMC
PFOIC
PFOIA
POWZ
E2BBP
E2FLN
E2SSIR
E2EMP
E1OWL
E2FLM
E2BBP
E2FLN
E2FLM
E2BBP
E2FLN
E2SSIP
E2EMP
POWZ
E2EMP
E1OWL
E2FLN
E2EMP
POWZ
E1OWL
E2EMP
E2SSIP
E1OWL
E2SSIP
E2EMP
E2BBP
E2EMP
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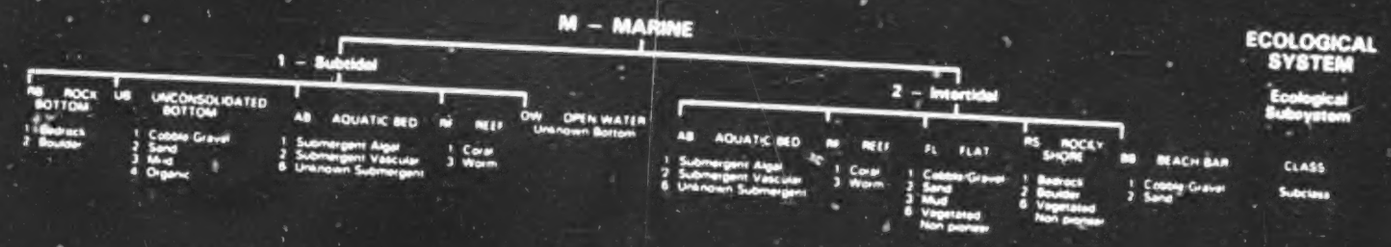

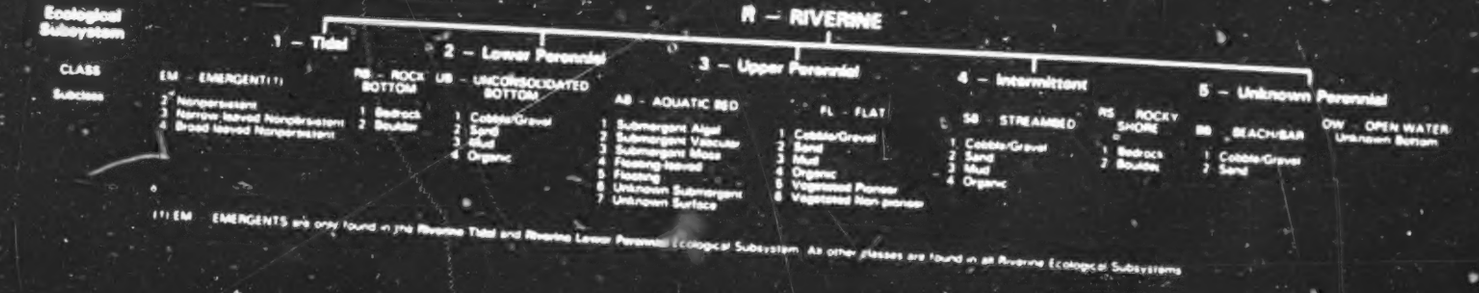

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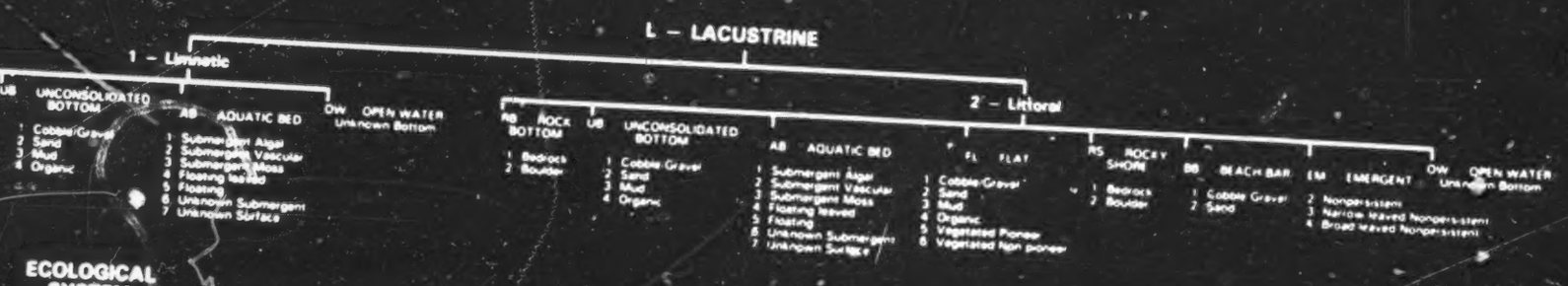

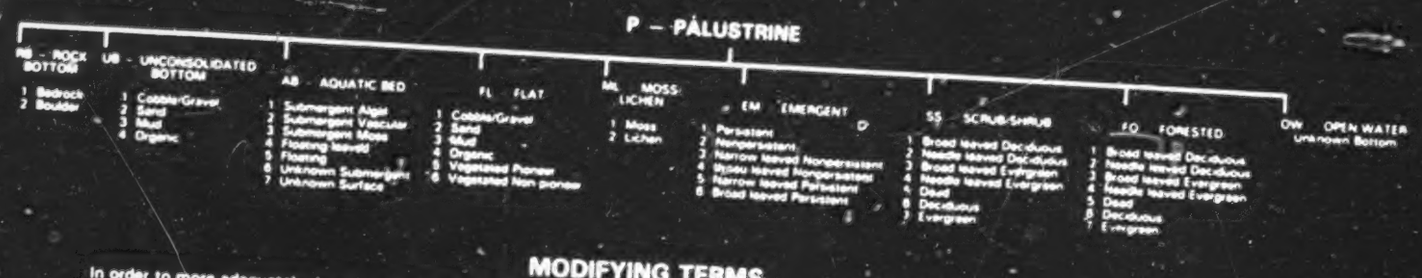

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

MODIFYING TERMS

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WATER REGIME(1)

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A Temporary	H Permanent	K Artificial	R Seasonal-Tidal	
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D Seasonal Well-drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal	
E Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown	
F Semipermanent	Y Saturated/Semipermanent/Seasonal			
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6 Oligohaline		
0 Fresh		

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g	Organic
n	Mineral

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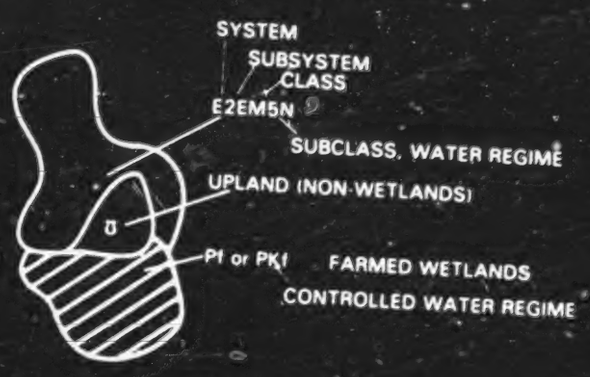

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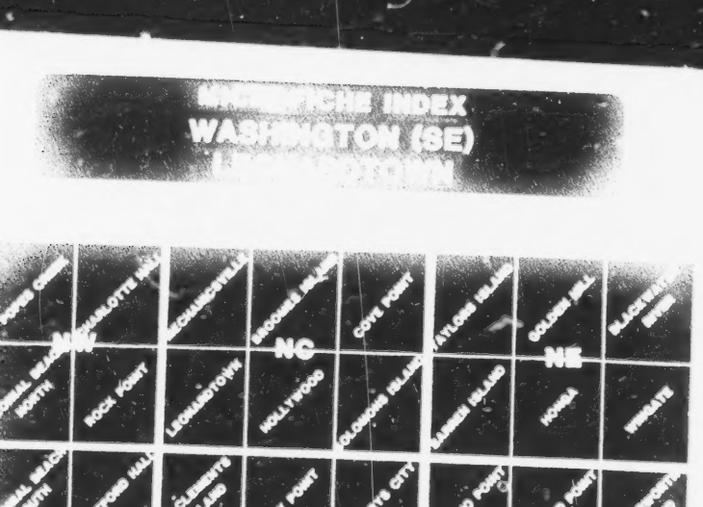

AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WASHINGTON SE
LEONARDTOWN

SCALE 1:24 000

AERIAL PHOTO 4/78

38°07'30"

76°30'

PINEY POINT, MD-VA

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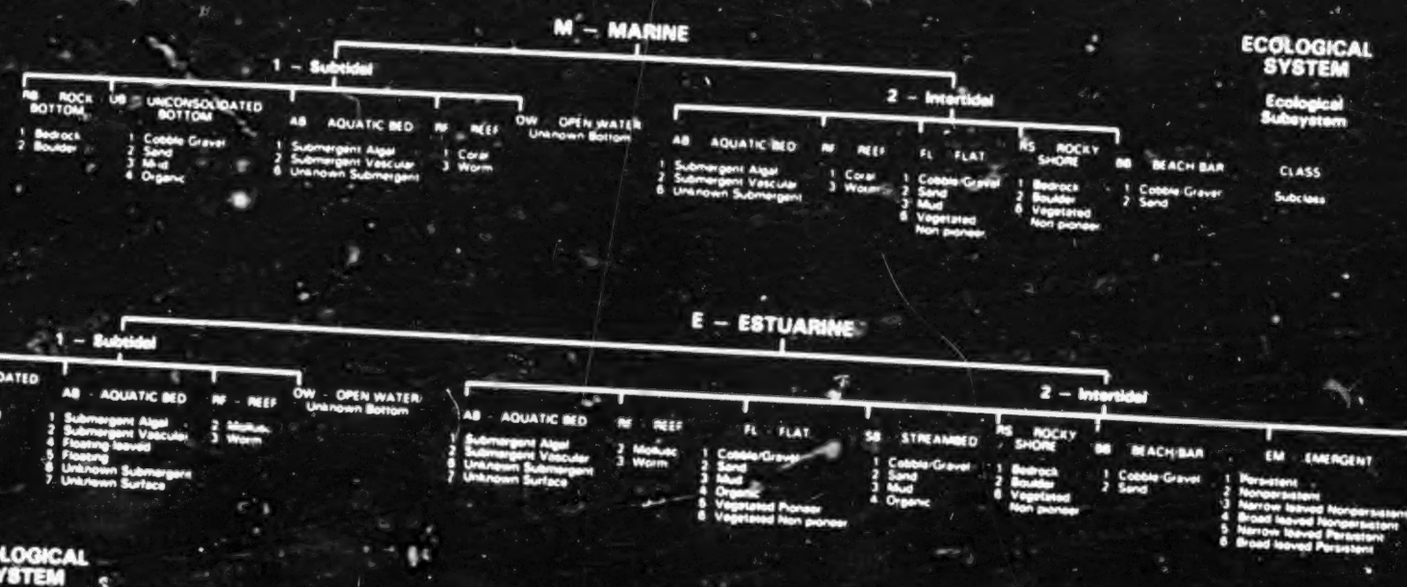

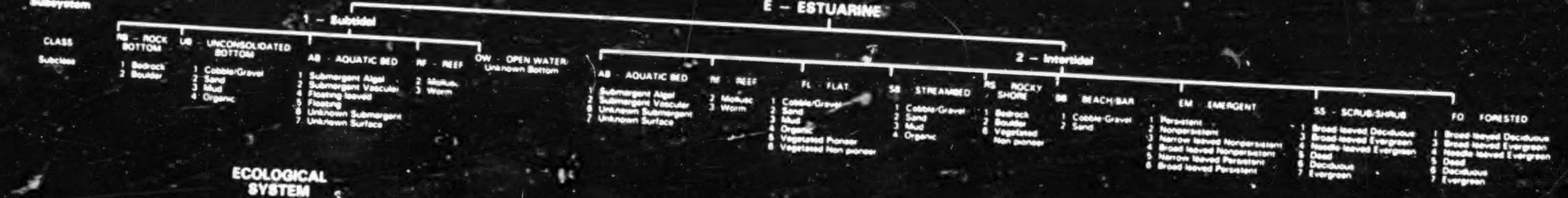

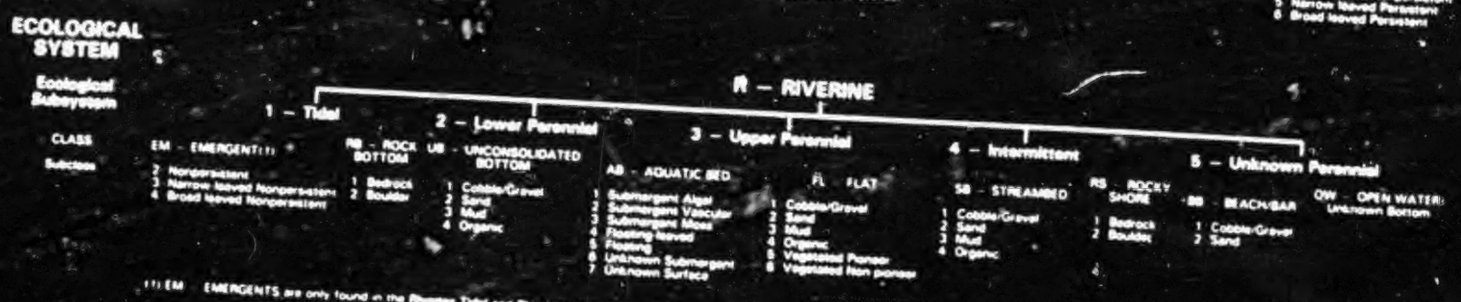

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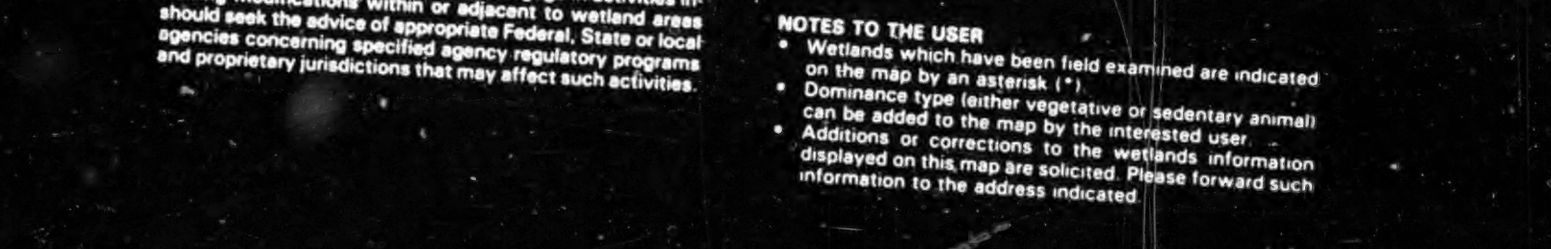

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WATER REGIME(1)

Non-Tidal

- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- M Intermittently Exposed/Permanent
- N Intermittently Flooded/Temporary
- W Seasonal/Semipermanent/Seasonals
- Y Unknown

Tidal

- L Artificial
- M Subtidal
- N Irregularly Exposed
- P Regular
- V Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity

- 1 Hyperhaline
- 2 Euhaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity

- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water

- a Acid
- i Circumneutral
- i Alkaline

SOIL

- p Organic
- n Mineral

SPECIAL MODIFIERS

- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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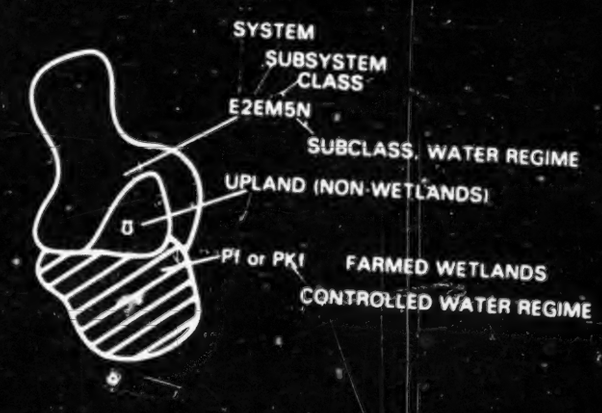
SYMBOLOGY EXAMPLE



NOTES TO THE USER

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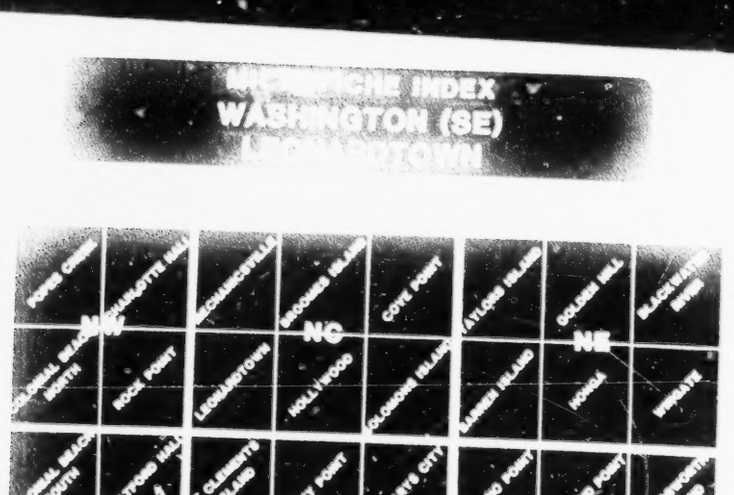

AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WS11-26

WASHINGTON SE
LEONARDTOWN

SCALE 1:24,000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
0 1 KILOMETER

23

38°07'30"
76°22'30"

AERIAL PHOTO 4/78

ST. MARYS CITY, MD.

SPOT

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS: Subclass

1 – Subtidal

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent
- RF REEF: 1 Coral, 3 Worm
- OW OPEN WATER: Unknown Bottom

2 – Intertidal

- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent
- RF REEF: 1 Coral, 3 Worm
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 6 Vegetated Non pioneer
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer
- BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS: Subclass

1 – Subtidal

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- RF REEF: 2 Mollusc, 3 Worm
- OW OPEN WATER: Unknown Bottom

2 – Intertidal

- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent, 7 Unknown Surface
- RF REEF: 2 Mollusc, 3 Worm
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 8 Vegetated Non pioneer
- SB STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer
- BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand
- EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- FO FORESTED: 1 Broad leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS: Subclass

- **1 – Tidal**
  - EM EMERGENT(1): 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 6 Broad leaved Nonpersistent
- **2 – Lower Perennial**
  - RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
  - UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- **3 – Upper Perennial**
  - AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
  - FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
- **4 – Intermittent**
  - SB STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
  - RS ROCKY SHORE: 1 Bedrock, 2 Boulder
  - BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand
- **5 – Unknown Perennial**
  - OW OPEN WATER: Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM: No Subsystem | CLASS: Subclass

- **1 – Limnetic**
  - RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
  - UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
  - AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
  - OW OPEN WATER: Unknown Bottom
- **2 – Littoral**
  - RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
  - UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
  - AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
  - FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
  - RS ROCKY SHORE: 1 Bedrock, 2 Boulder
  - BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand
  - EM EMERGENT: 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent
  - OW OPEN WATER: Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM: No Subsystem | CLASS: Subclass

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
- ML MOSS-LICHEN: 1 Moss, 2 Lichen
- EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- OW OPEN WATER: Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- V Saturated/Semipermanent/Seasonals
- U Unknown

Tidal
- K Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hyperhaline
- 2 Euhaline
- 3 Mesohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- i Circumneutral
- r Alkaline

SOIL
- g Organic
- n Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

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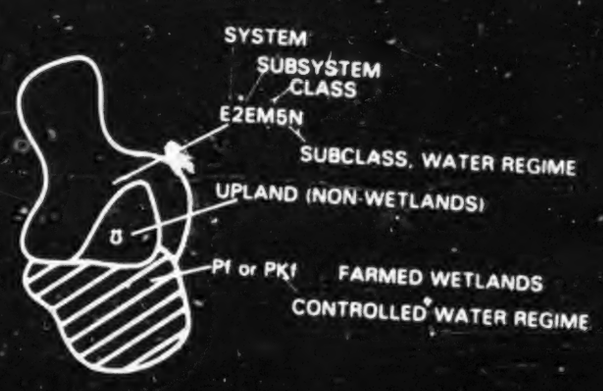

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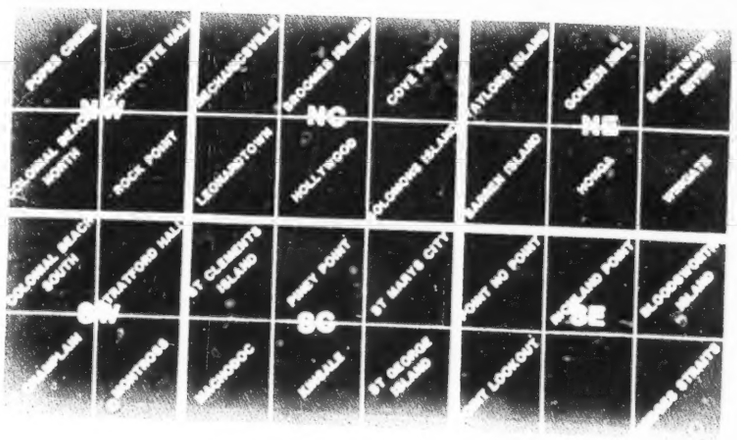
MICMACHE INDEX
WASHINGTON (SE)
LEONARDTOWN

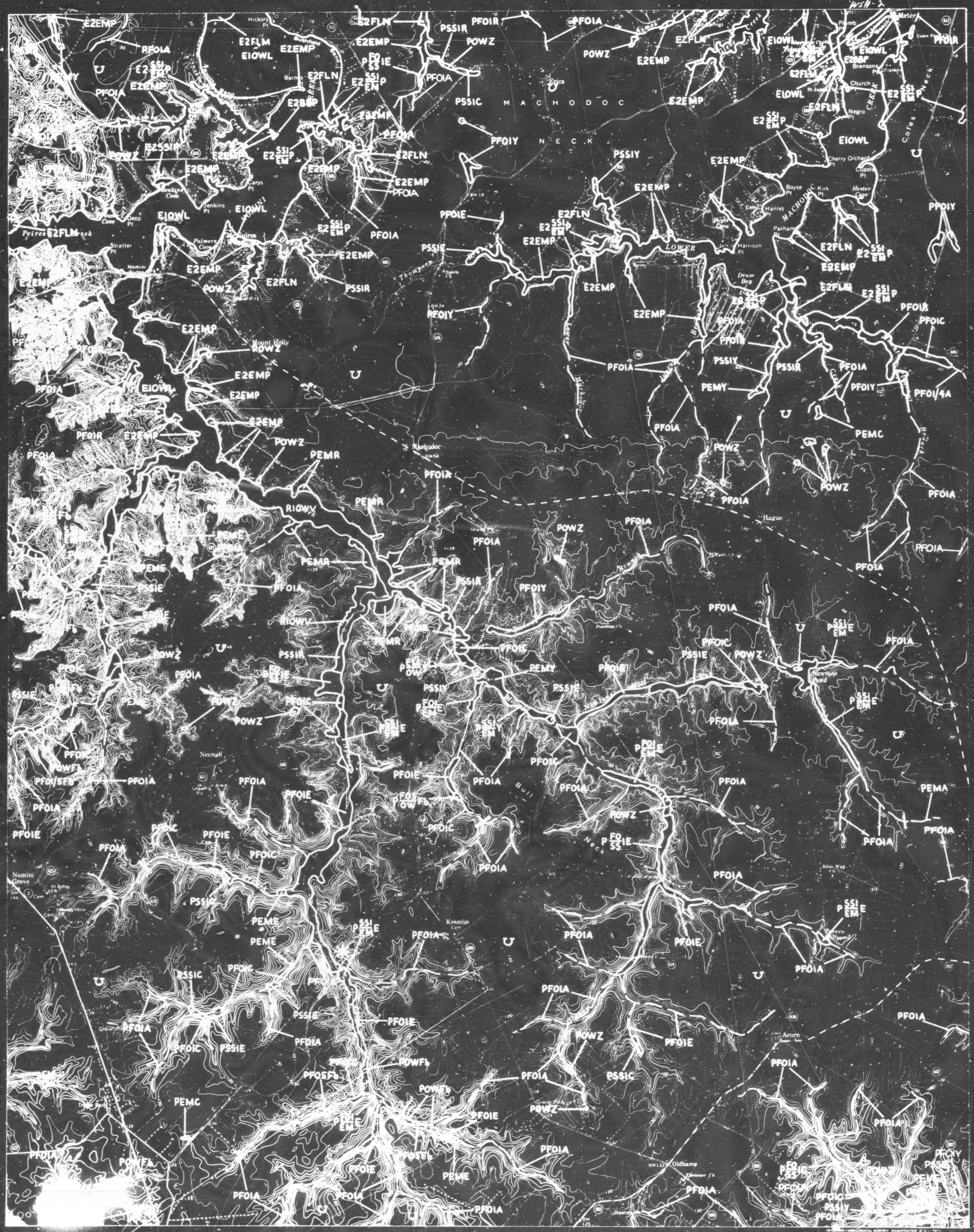


AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-2



WASHINGTON SE
LEONARDTOWN

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 MILE

1 0 1 KILOMETER

AERIAL PHOTOS
3178

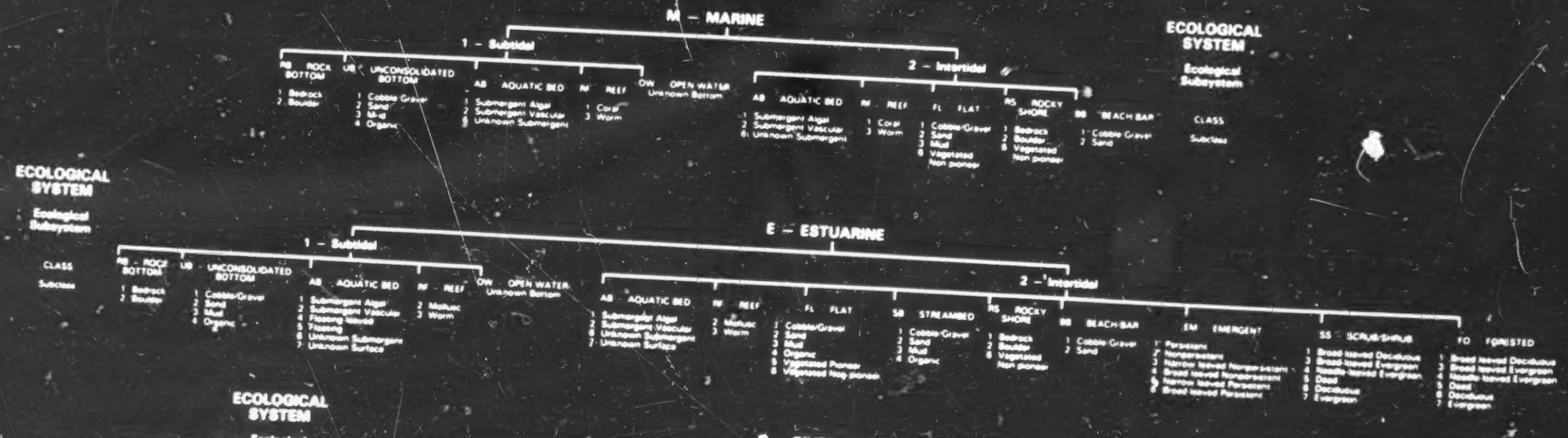
38°00'

76°37'30"

MACHODOC, VA

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



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WATER REGIME(1)

Non-Tidal

A	Temporary
B	Saturated
C	Seasonal
D	Seasonal Well-drained
E	Seasonal Saturated
F	Semipermanent
G	Intermittently Exposed
H	Permanent
J	Intermittently Flooded
K	Artificial
Z	Intermittently Exposed/Permanent
W	Intermittently Flooded/Temporary
Y	Saturated/Semipermanent/Seasonal
U	Unknown

Tidal

K	Artificial
L	Subtidal
M	Irregularly Exposed
N	Regular
P	Irregular
R	Seasonal Tidal
S	Temporary Tidal
T	Semipermanent Tidal
V	Permanent Tidal
U	Unknown

WATER CHEMISTRY

Coastal Salinity

1	Hypohaline
2	Euhaline
3	Mixohaline (Brackish)
4	Polyhaline
5	Mesohaline
8	Oligohaline
0	Fresh

Inland Salinity

7	Hypersaline
8	Eusaline
9	Mixosaline
0	Fresh

pH Modifiers for all Fresh Water

a	Acid
i	Circumneutral
i	Alkaline

SOIL

9	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver
d	Partially Drained/Ditched
f	Farmed
h	Diked/Impounded
r	Artificial
s	Spoil
x	Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

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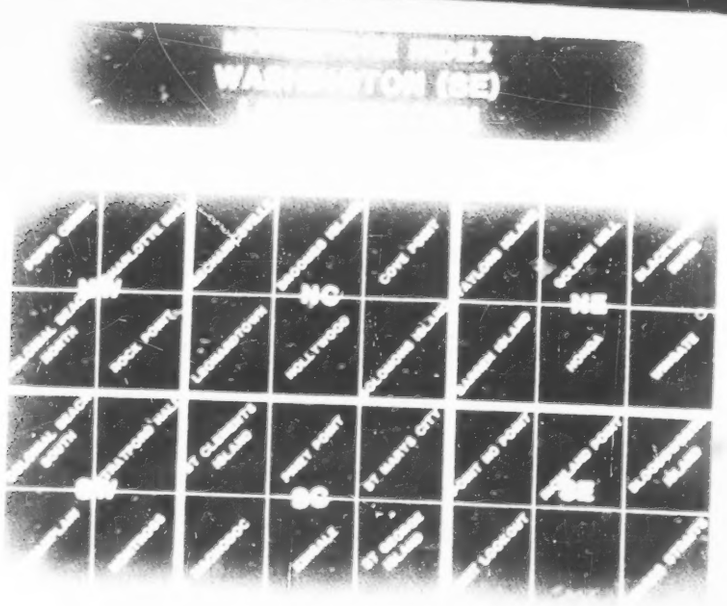
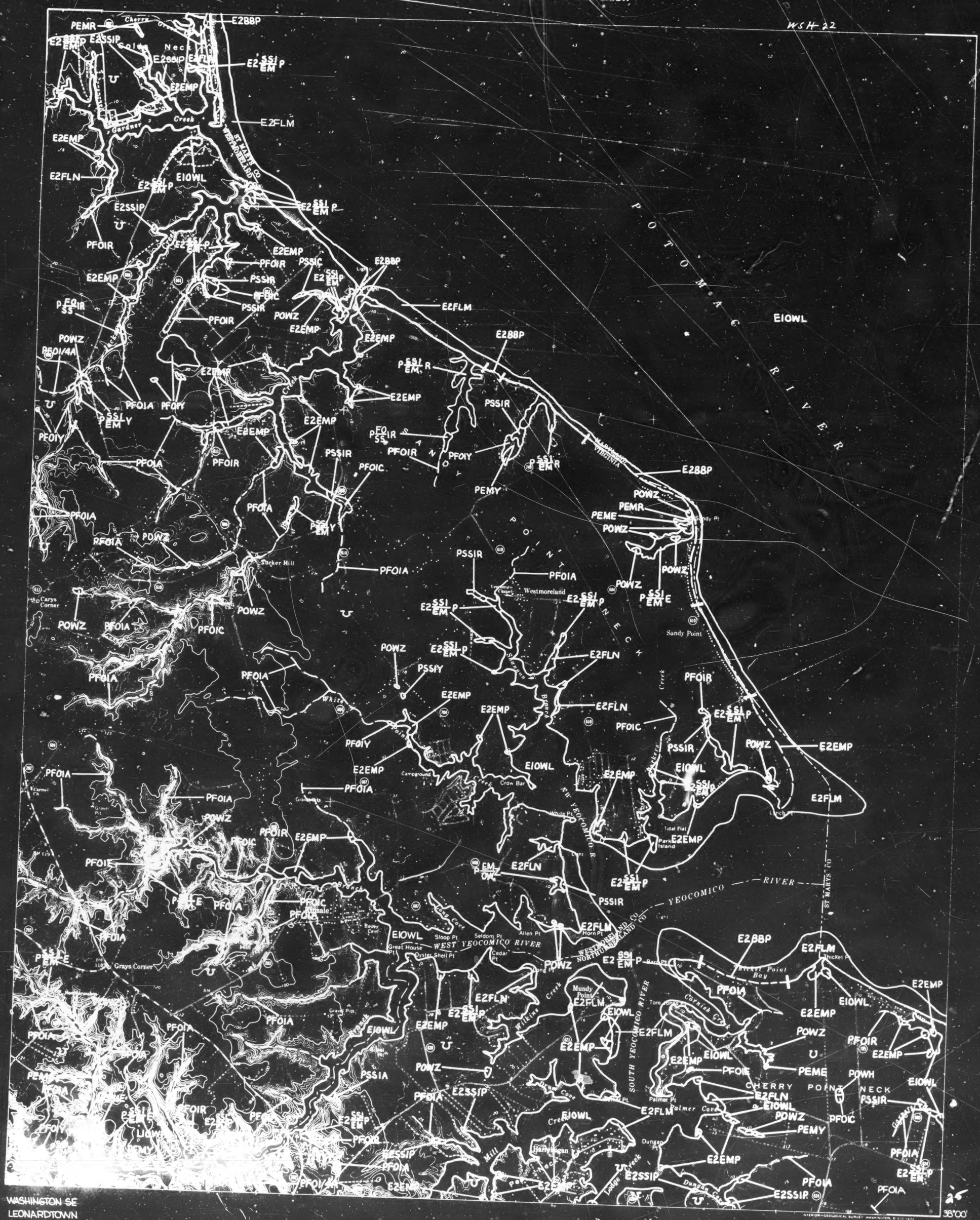


AF-14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-22



WASHINGTON SE
LEONARDTOWN

SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

5 0 1 KILOMETER

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1972

38°00'

76°30'

AERIAL PHOTO 4/73

KINSALE, VA.-MD

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

1 – Subtidal

RB ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 8 Unknown Submergent

RF REEF: 1 Coral, 3 Worm

OW OPEN WATER Unknown Bottom

2 – Intertidal

AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 8 Unknown Submergent

RF REEF: 1 Coral, 3 Worm

FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 6 Vegetated Non pioneer

RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 8 Vegetated Non pioneer

BB BEACH BAR: 1 Cobble/Gravel, 2 Sand

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

E – ESTUARINE

1 – Subtidal

RB – ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

AB – AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 5 Floating leaved, 6 Floating, 8 Unknown Submergent, 7 Unknown Surface

RF – REEF: 2 Mollusc, 3 Worm

OW – OPEN WATER/Unknown Bottom

2 – Intertidal

AB – AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 8 Unknown Submergent, 7 Unknown Surface

RF – REEF: 2 Mollusc, 3 Worm

FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer

SB – STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

RS – ROCKY SHORE: 1 Bedrock, 2 Boulder, 8 Vegetated Non pioneer

BB – BEACH/BAR: 1 Cobble/Gravel, 2 Sand

EM – EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent

SS – SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 3 Needle leaved Evergreen, 4 Dead, 5 Deciduous, 7 Evergreen

FO – FORESTED: 1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 3 Needle leaved Evergreen, 4 Dead, 5 Deciduous, 7 Evergreen

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

R – RIVERINE

1 – Tidal

2 – Lower Perennial

3 – Upper Perennial

4 – Intermittent

5 – Unknown Perennial

EM – EMERGENT(1): 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent

RB – ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

AB – AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface

FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer

SB – STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

RS – ROCKY SHORE: 1 Bedrock, 2 Boulder

BB – BEACH/BAR: 1 Cobble/Gravel, 2 Sand

OW – OPEN WATER/Unknown Bottom

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

1 – Limnetic

RB – ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

AB – AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface

OW – OPEN WATER Unknown Bottom

2 – Littoral

RB – ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

AB – AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface

FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer

RS – ROCKY SHORE: 1 Bedrock, 2 Boulder

BB – BEACH/BAR: 1 Cobble/Gravel, 2 Sand

EM – EMERGENT: 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent

OW – OPEN WATER Unknown Bottom

ECOLOGICAL SYSTEM — Ecological Subsystem — CLASS — Subclass

P – PALUSTRINE

RB – ROCK BOTTOM: 1 Bedrock, 2 Boulder

UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

AB – AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface

FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer

ML – MOSS/LICHEN: 1 Moss, 2 Lichen

EM – EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Narrow leaved Persistent, 5 Broad leaved Persistent

SS – SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

FO – FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

OW – OPEN WATER Unknown Bottom

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal: A Temporary; B Saturated; C Seasonal; D Seasonal Well-drained; E Seasonal Saturated; F Semipermanent; G Intermittently Exposed

Tidal: H Permanent; J Intermittently Flooded; K Artificial; Z Intermittently Exposed/Permanent; W Intermittently Flooded/Temporary; Y Saturated/Semipermanent/Seasonal; U Unknown; L Subtidal; M Irregularly Exposed; N Regular; P Irregular; R Seasonal Tidal; S Temporary Tidal; T Semipermanent Tidal; V Permanent Tidal

WATER CHEMISTRY

Coastal Salinity: 1 Hypersaline; 2 Eusaline; 3 Polyhaline (Brackish); 4 Mesohaline; 5 Oligohaline; 6 Dysohaline; 0 Fresh

Inland Salinity: 7 Hypersaline; 8 Eusaline; 9 Mesosaline; 0 Fresh

pH Modifiers for all Fresh Water: a Acid; i Circumneutral; j Alkaline

SOIL: 9 Organic; n Mineral

SPECIAL MODIFIERS: b Beaver; d Partially Drained/Ditched; f Farmed; h Diked/Impounded; r Artificial; s Spoil; x Excavated

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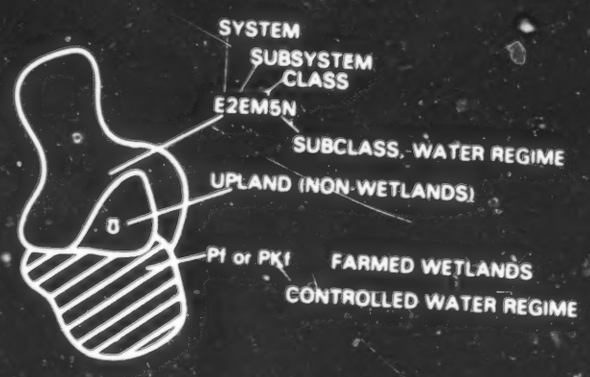

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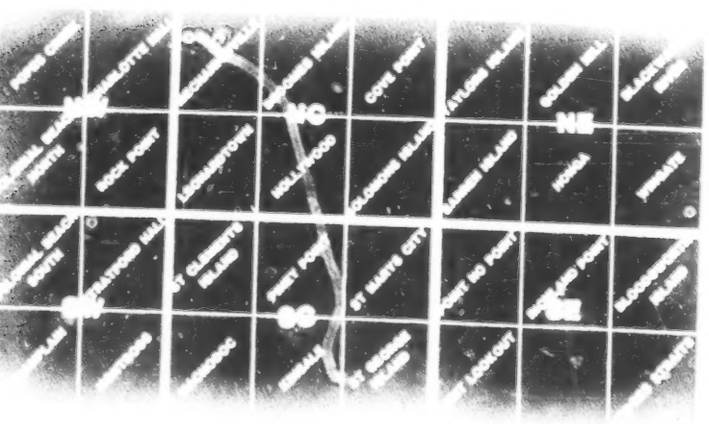
INDEX
WASHINGTON (SE)

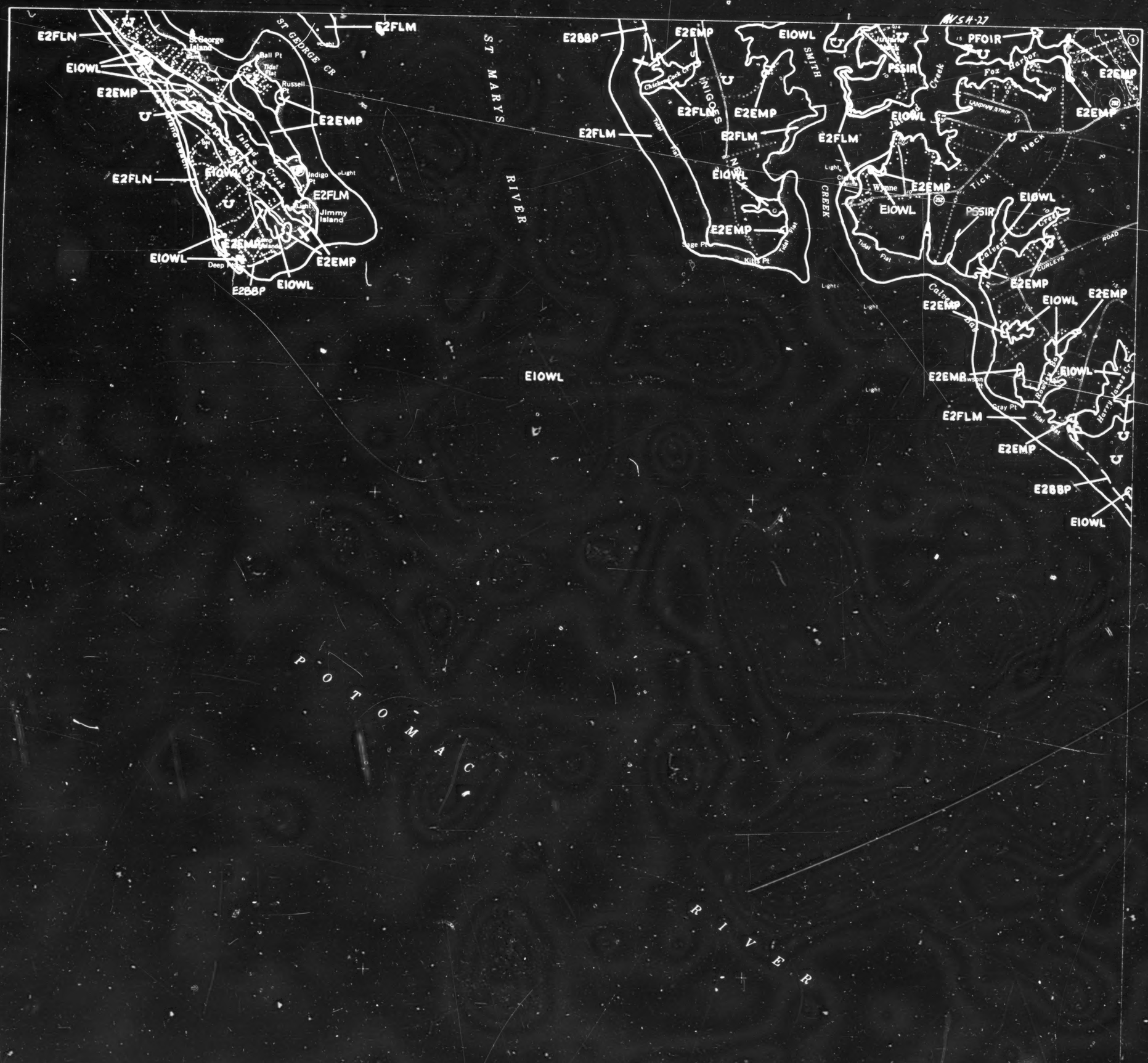


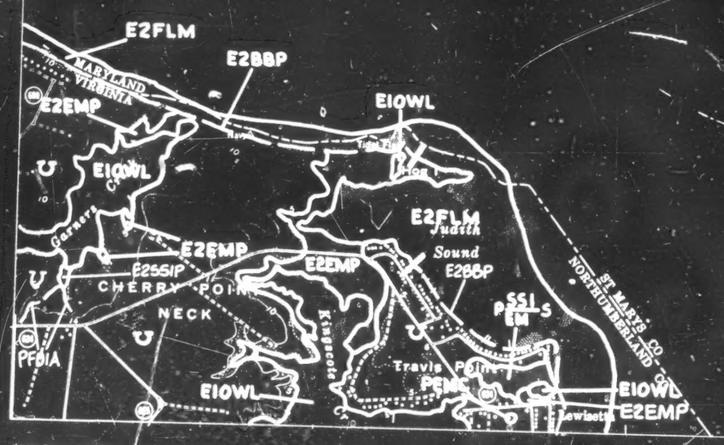
AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

AWS 4-27





WASHINGTON SE
LEONARDTOWN

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRG.

38°00'
76°22'30"

NEWAL PHOTO 4/78

ST GEORGE ISLAND, MD.-VA

WETLAND LEGEND

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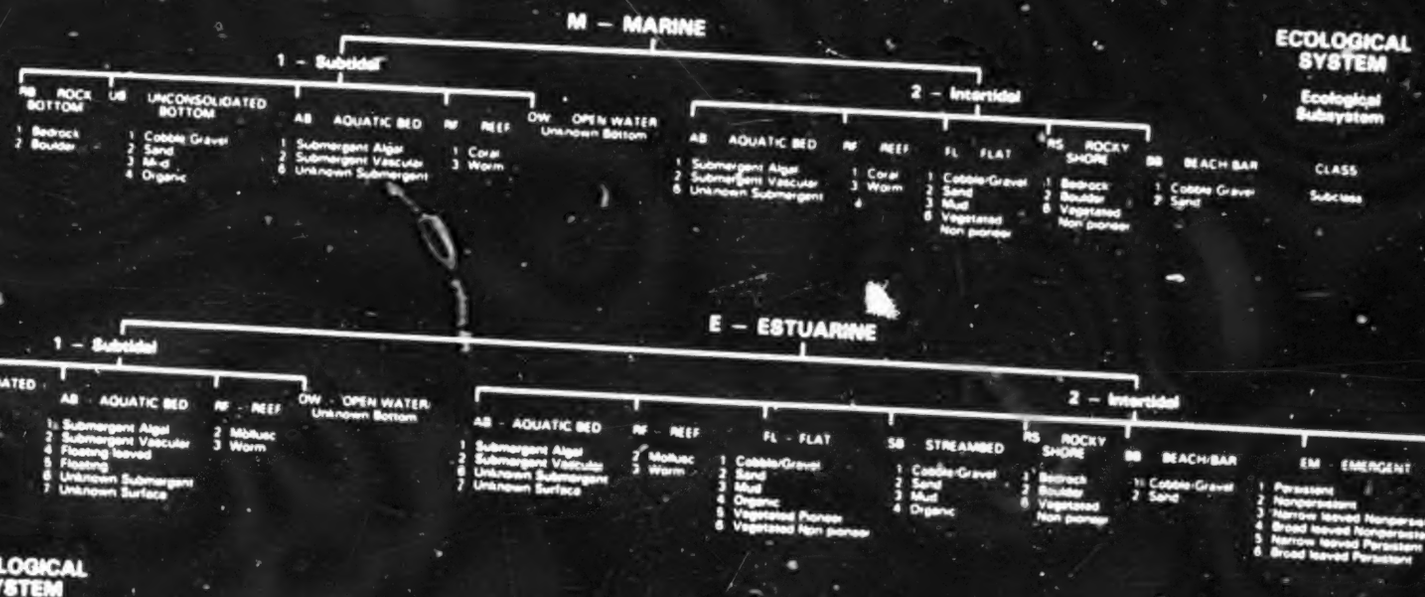
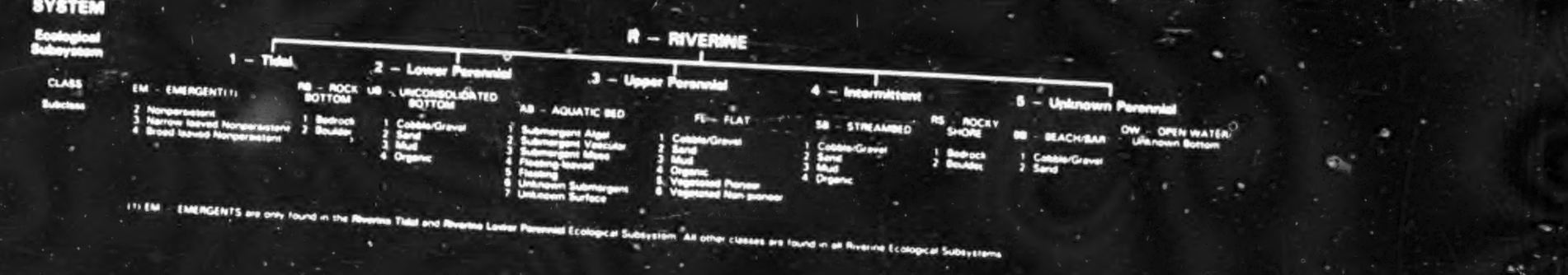
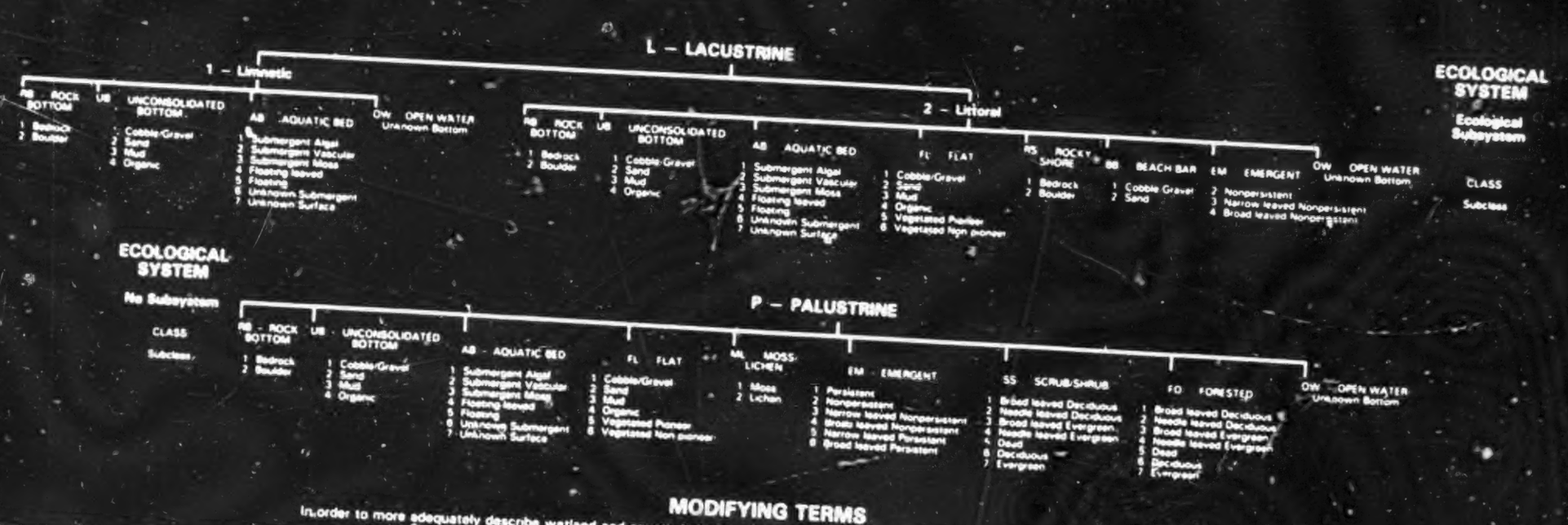
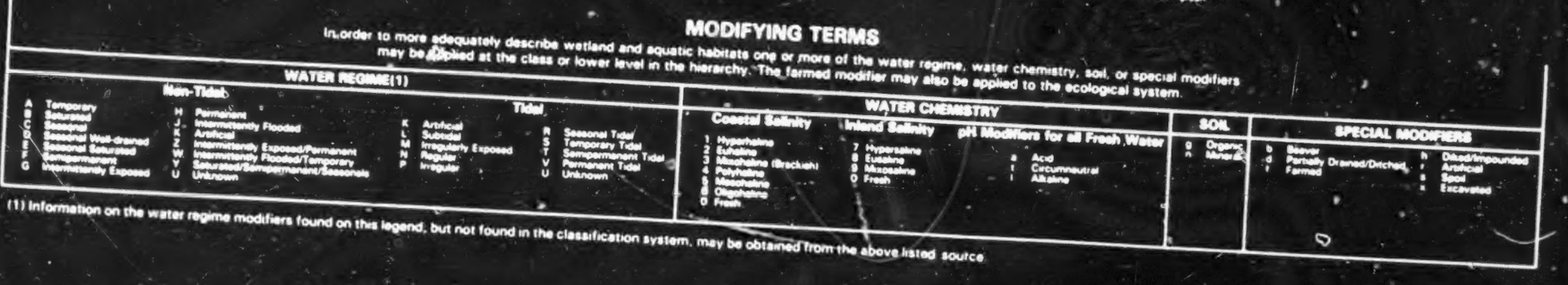




(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.





MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal

- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- M Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal
- U Unknown

Tidal

- K Artificial
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity

- 1 Hyperhaline
- 2 Euhaline
- 3 Mesohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity

- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- Q Fresh

pH Modifiers for all Fresh Water

- a Acid
- i Circumneutral
- i Alkaline

SOIL

- g Organic
- n Mineral

SPECIAL MODIFIERS

- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

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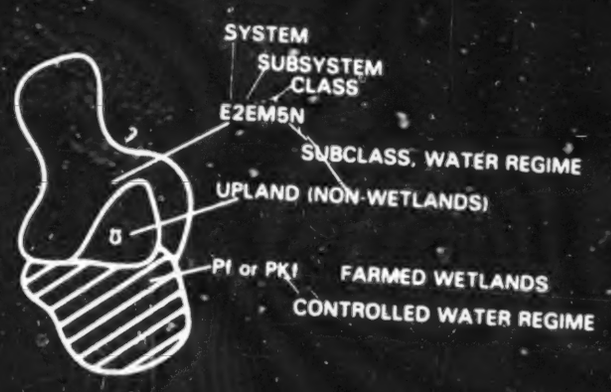

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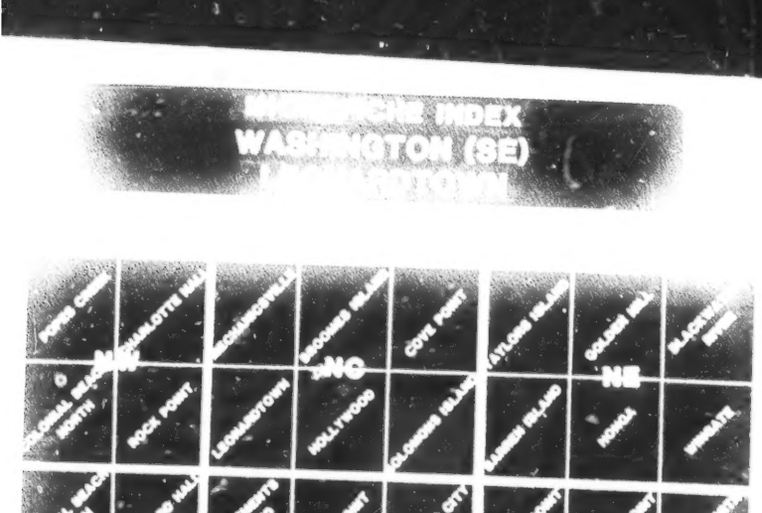

AF 14064C-D

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-30

C H E S A P E A K E

E1OWL

B A Y

△ Lighthouse

27

38°07'30"

76°15'

WASHINGTON SE
LEONARDTOWN

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

AERIAL PHOTO 4/78

POINT NO POINT, MD

WETLAND LEGEND

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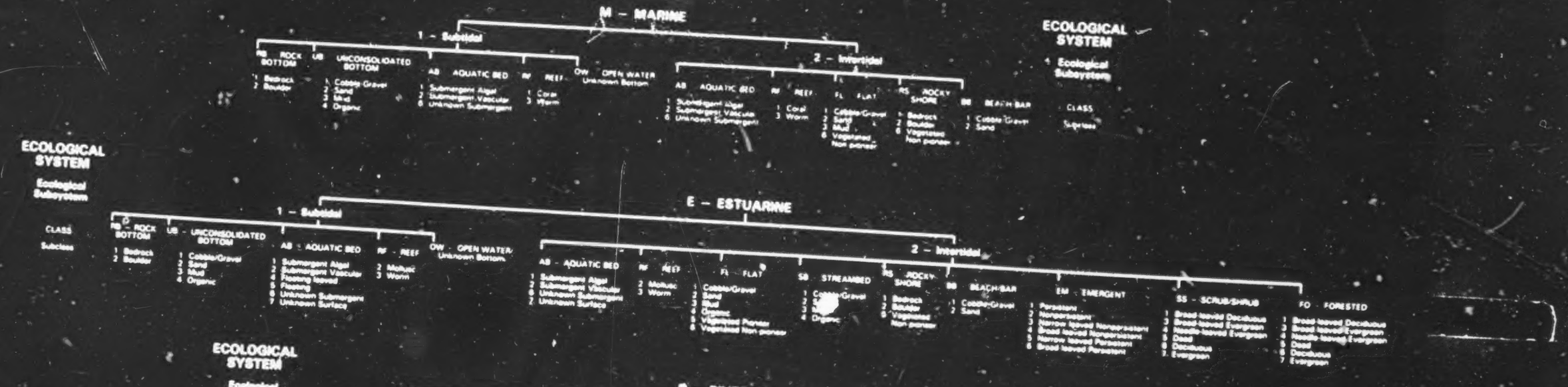

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Tidal

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- L Subtidal
- M Irregularly Exposed
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- P Irregular

- S Seasonal Tidal
- T Temporary Tidal
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- 0 Fresh

pH Modifiers for all Fresh Water

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- i Circumneutral
- i Alkaline

SOIL

- o Organic
- n Mineral

SPECIAL MODIFIERS

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- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
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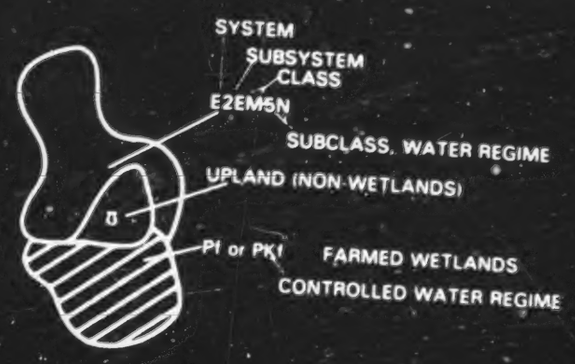

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AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-27

CHESAPEAKE BAY

E1OWL

WASHINGTON SE
LEONARDTOWN

SCALE 1:24 000

0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
0 1 KILOMETER

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1979

AERIAL PHOTO 4178

38°07'30"
76°07'30"

RICHLAND POINT, MD

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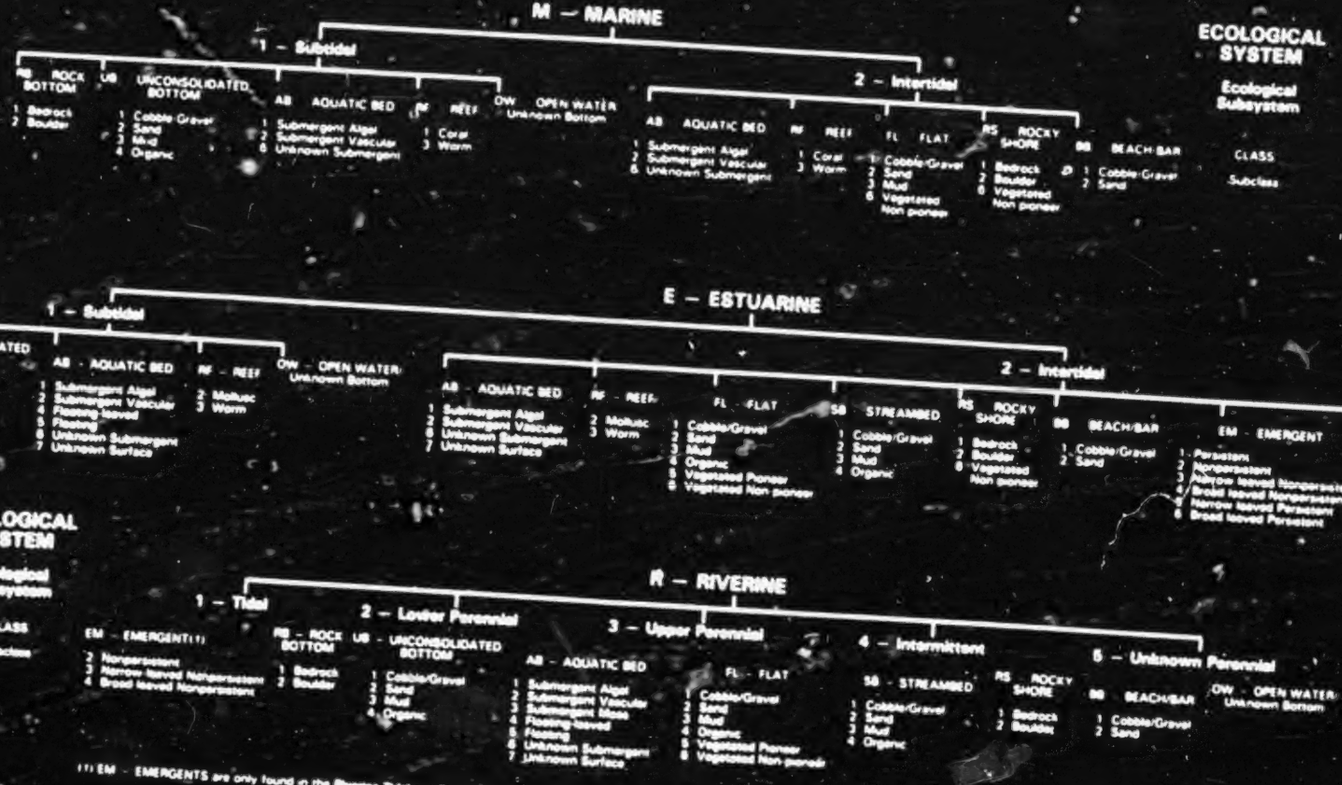

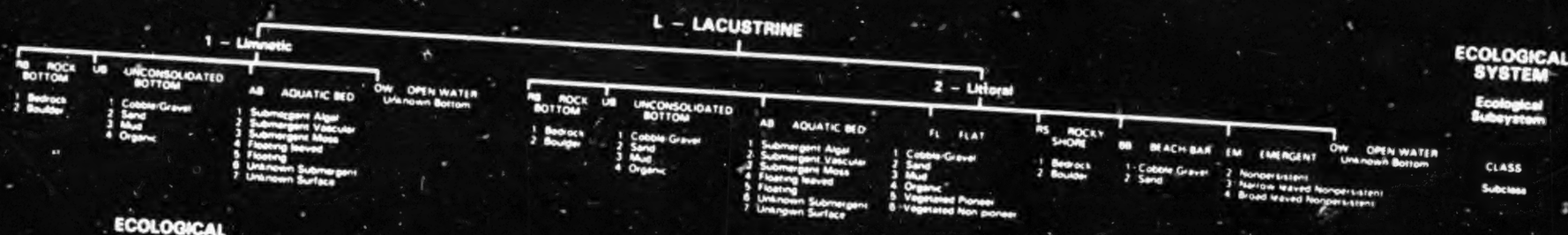

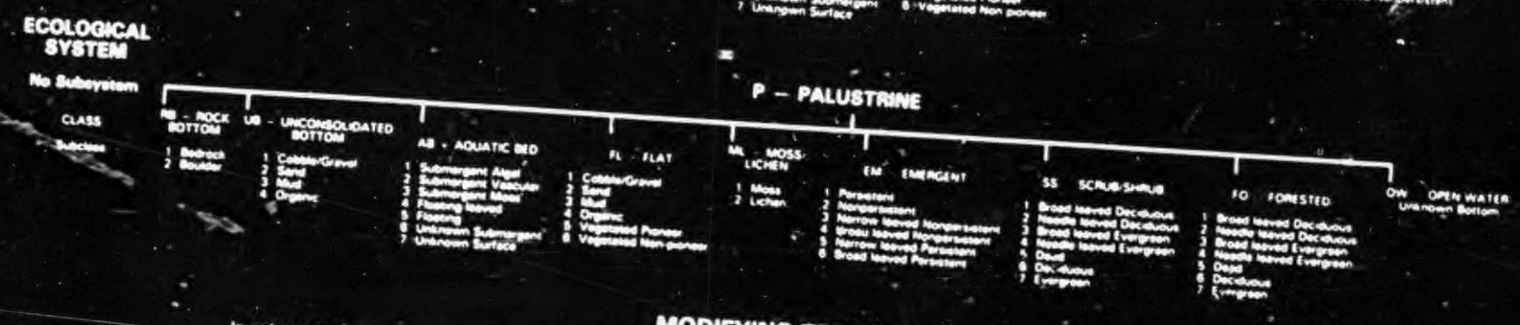

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WATER REGIME(1)

Non-Tidal

A	Temporary	H	Permanent
B	Saturated	J	Intermittently Flooded
C	Seasonal	K	Artificial
D	Seasonal Well-drained	L	Subtidal
E	Seasonal Saturated	M	Irregularly Exposed
F	Semipermanent	N	Regular
G	Intermittently Exposed	P	Irregular

Tidal

R	Seasonal Tidal	V	Permanent Tidal
S	Temporary Tidal	U	Unknown
T	Semipermanent Tidal		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hypersaline	7 Hypersaline	a Acid
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3 Mixohaline (Brackish)	9 Mixosaline	i Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

0	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver
d	Partially Drained/Ditched
f	Farmed
h	Diked/Impounded
r	Artificial
s	Spoil
x	Excavated

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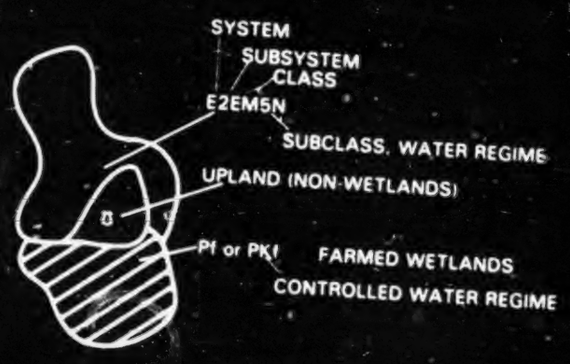

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AP 14064C-Q

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-6

E2FLM
E2FLN
E2EMP
E1OWL
E2SSIP
E2FOIP
E2SSIP
E2SSIP
E2SS

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

1 – Subtidal

ECOLOGICAL SYSTEM	CLASS
RB ROCK BOTTOM	1 Bedrock 2 Boulder
UB UNCONSOLIDATED BOTTOM	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic
AB AQUATIC BED	1 Submergent Algal 2 Submergent Vascular 8 Unknown Submergent
RF REEF	2 Coral 3 Worm
OW OPEN WATER	Unknown Bottom

2 – Intertidal

ECOLOGICAL SYSTEM	CLASS
AB AQUATIC BED	1 Submergent Algal 2 Submergent Vascular 8 Unknown Submergent
RF REEF	1 Coral 3 Worm
FL FLAT	1 Cobble/Gravel 2 Sand 3 Mud 8 Vegetated (non pioneer
RS ROCKY SHORE	1 Bedrock 2 Boulder 8 Vegetated Non pioneer
BB BEACH/BAR	1 Cobble/Gravel 2 Sand

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

E – ESTUARINE

1 – Subtidal

ECOLOGICAL SYSTEM	CLASS
RB ROCK BOTTOM	1 Bedrock 2 Boulder
UB UNCONSOLIDATED BOTTOM	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic
AB AQUATIC BED	1 Submergent Algal 2 Submergent Vascular 4 Floating leaved 5 Floating 8 Unknown Submergent 7 Unknown Surface
RF REEF	2 Mollusc 3 Worm
OW OPEN WATER	Unknown Bottom

2 – Intertidal

ECOLOGICAL SYSTEM	CLASS
AB AQUATIC BED	1 Submergent Algal 2 Submergent Vascular 8 Unknown Submergent 7 Unknown Surface
RF REEF	2 Mollusc 3 Worm
FL FLAT	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 8 Vegetated Non pioneer
SB STREAMBED	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic
RS ROCKY SHORE	1 Bedrock 2 Boulder 8 Vegetated Non pioneer
BB BEACH/BAR	1 Cobble/Gravel 2 Sand
EM EMERGENT	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent
SS SCRUB-SHRUB	1 Broad leaved Deciduous 3 Broad leaved Evergreen 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen
FO FORESTED	1 Broad leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

R – RIVERINE

1 – Tidal

ECOLOGICAL SYSTEM	CLASS
EM EMERGENT(1)	2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent
RB ROCK BOTTOM	1 Bedrock 2 Boulder

2 – Lower Perennial

ECOLOGICAL SYSTEM	CLASS
UB UNCONSOLIDATED BOTTOM	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic

3 – Upper Perennial

ECOLOGICAL SYSTEM	CLASS
AB AQUATIC BED	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating-leaved 5 Floating 8 Unknown Submergent 7 Unknown Surface
FL FLAT	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 8 Vegetated Non pioneer

4 – Intermittent

ECOLOGICAL SYSTEM	CLASS
SB STREAMBED	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic
RS ROCKY SHORE	1 Bedrock 2 Boulder
BB BEACH/BAR	1 Cobble/Gravel 2 Sand

5 – Unknown Perennial

ECOLOGICAL SYSTEM	CLASS
OW OPEN WATER	Unknown Bottom

(1) EM EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

1 – Limnetic

ECOLOGICAL SYSTEM	CLASS
RB ROCK BOTTOM	1 Bedrock 2 Boulder
UB UNCONSOLIDATED BOTTOM	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic
AB AQUATIC BED	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 8 Unknown Submergent 7 Unknown Surface
OW OPEN WATER	Unknown Bottom

2 – Littoral

ECOLOGICAL SYSTEM	CLASS
RB ROCK BOTTOM	1 Bedrock 2 Boulder
UB UNCONSOLIDATED BOTTOM	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic
AB AQUATIC BED	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 8 Unknown Submergent 7 Unknown Surface
FL FLAT	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 8 Vegetated Non pioneer
RS ROCKY SHORE	1 Bedrock 2 Boulder
BB BEACH/BAR	1 Cobble/Gravel 2 Sand
EM EMERGENT	2 Nonpersistent 1 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent
OW OPEN WATER	Unknown Bottom

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

P – PALUSTRINE

ECOLOGICAL SYSTEM	No Subsystem
CLASS	Subclass
RB ROCK BOTTOM	1 Bedrock 2 Boulder
UB UNCONSOLIDATED BOTTOM	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic
AB AQUATIC BED	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 8 Unknown Submergent 7 Unknown Surface
FL FLAT	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 8 Vegetated Non pioneer
ML MOSS LICHEN	1 Moss 2 Lichen
EM EMERGENT	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent
SS SCRUB-SHRUB	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 6 Deciduous 7 Evergreen
FO FORESTED	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen
OW OPEN WATER	Unknown Bottom

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WATER REGIME(1)

	Non-Tidal		Tidal		
A	Temporary	H	Permanent	K	Artificial	R	Seasonal Tidal
B	Saturated	J	Intermittently Flooded	L	Subtidal	S	Temporary Tidal
C	Seasonal	K	Artificial	M	Irregularly Exposed	T	Semipermanent Tidal
D	Seasonal Well-drained	Z	Intermittently Exposed/Permanent	N	Regularly Exposed	V	Permanent Tidal
E	Seasonal Saturated	W	Intermittently Flooded/Temporary	P	Irregularly Flooded	U	Unknown
F	Semipermanent	Y	Saturated/Semipermanent/Seasonal				
G	Intermittently Exposed	U	Unknown				

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hypersaline	7 Hypersaline	a Acid
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4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

g	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partially Drained/Ditched	r	Artificial
f	Farmed	s	Spoil
		x	Excavated

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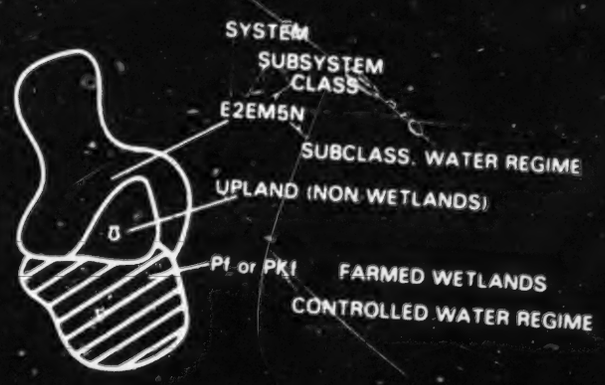
SYMBOLOGY EXAMPLE



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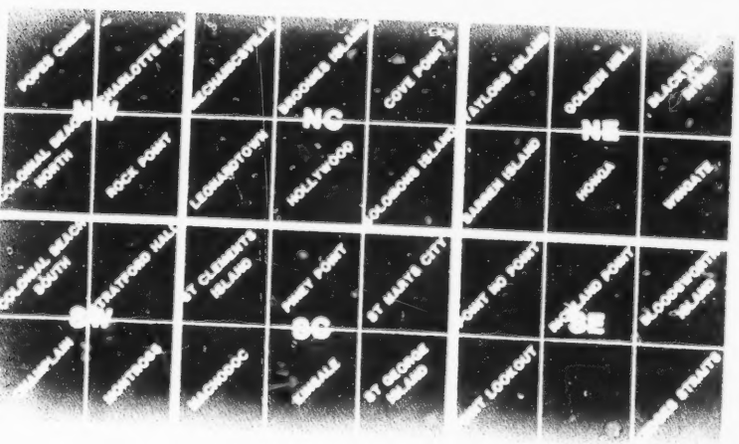
INDEX TO MAP INDEX
WASHINGTON (SE)



AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-29

WASHINGTON SE
LEONARDTOWN

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 KILOMETER

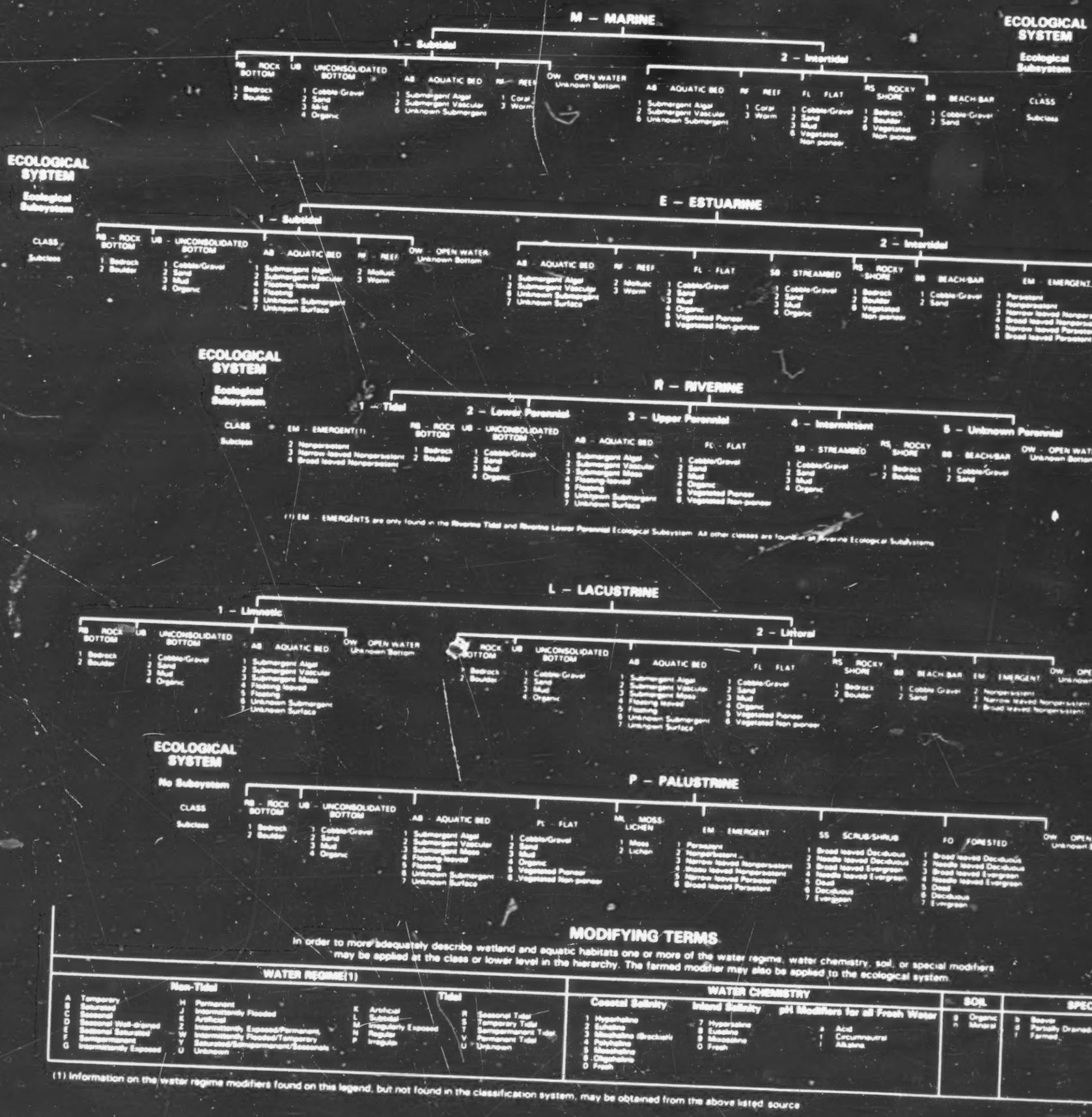
INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D.C.

AERIAL PHOTO 4/48

POINT LOOKOUT, MD.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.



MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- V Artificial/Semipermanent/Seasonal
- U Unknown

Tidal
- L Subtidal
- M Irregularly Exposed
- N Regular
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

WATER CHEMISTRY

Coastal Salinity
1 Hypohaline
2 Euhaline
3 Mesohaline (Brackish)
4 Polyhaline
5 Euhaline
6 Mesohaline
7 Oligohaline
0 Fresh

Inland Salinity
7 Hypersaline
8 Eusaline
9 Mesosaline
0 Fresh

pH Modifiers for all Fresh Water
a Acid
i Circumneutral
i Alkaline

SOIL
- 0 Organic
- n Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- r Artificial
- s Spoil
- x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source

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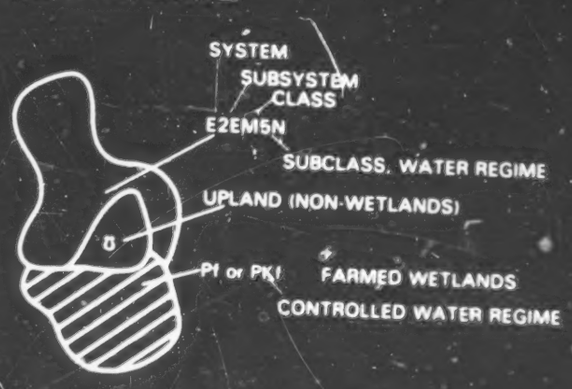

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AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WSH-4

WASHINGTON SE
LEONARDTOWN

SCALE 1:24 000

AERIAL PHOTO 11/77

KEDGES STRAITS, MD

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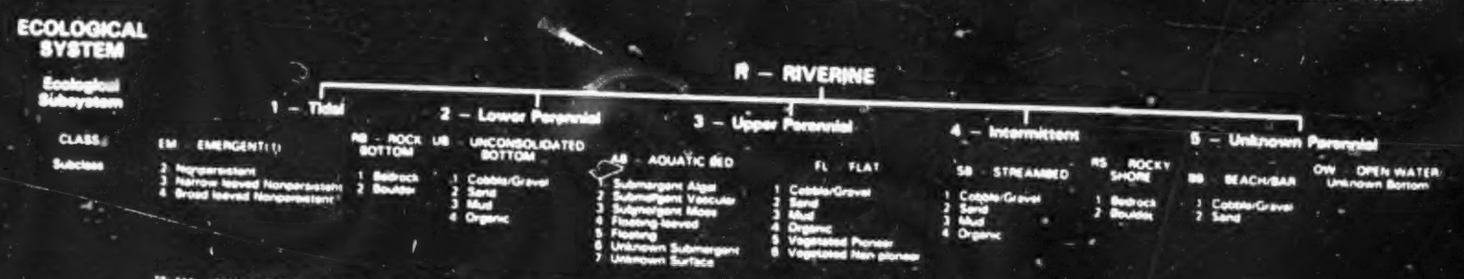
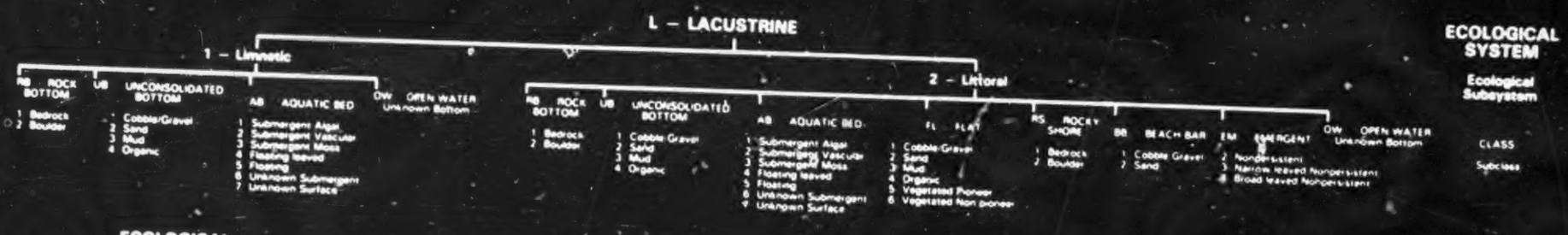
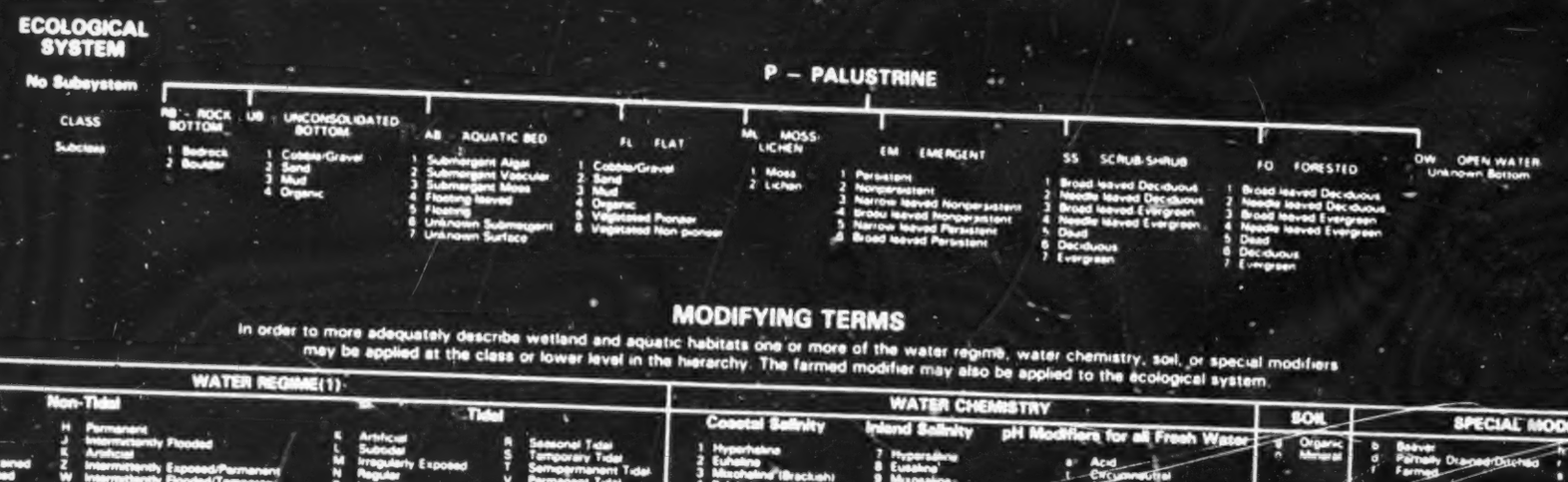


(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.





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WATER REGIME(1)

Non-Tidal		Tidal		Tidal	
A Temporary	H Permanent	E Artificial		R Seasonal Tidal	
B Saturated	J Intermittently Flooded	F Subtidal		S Temporary Tidal	
C Seasonal	K Artificial	G Irregularly Exposed		T Semipermanent Tidal	
D Seasonal Well drained	Z Intermittently Exposed/Permanent	M Regular		V Permanent Tidal	
E Seasonal Saturated	W Intermittently Flooded/Temporary	N Irregular		U Unknown	
F Semipermanent	V Saturated/Semipermanent/Seasonal				
G Intermittently Exposed	U Unknown				

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	a Acid
2 Euhaline	8 Eusaline	c Circumneutral
3 Mixohaline (Brackish)	9 Mixosaline	k Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

1	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partially Drained/Ditched	r	Artificial
f	Farmed	s	Spoil
		x	Excavated

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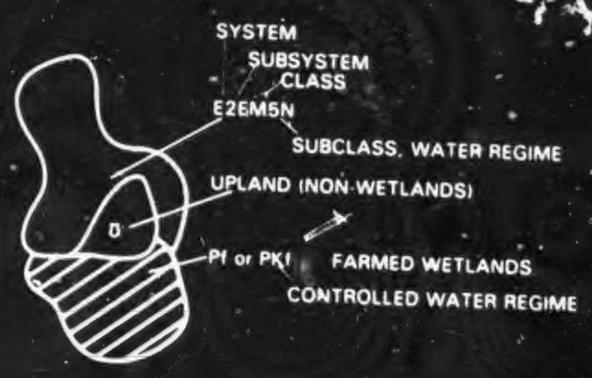

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